

2010 Bay Area HOV Lanes



Volumes, occupancies and violation rates for freeway High Occupancy Vehicle Lanes in the San Francisco Bay Area



California Department of Transportation
District 4 Oakland
Office of Highway Operations



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INTRODUCTION

The ANNUAL HOV LANE REPORT is prepared by the California Department of Transportation (Caltrans) District 4 Office of Highway Operations. This report contains information concerning High Occupancy Vehicle (HOV) lanes on the San Francisco Bay Area freeway system. Traffic performance data for mainline HOV lanes and HOV toll gates are provided for calendar year 2010. This data includes, traffic volumes, vehicle occupancies, HOV lane time savings, and HOV lane violation rates. Generally data for this report is collected twice annually — once in the spring and once in the fall — when normal commute traffic patterns and conditions usually occur. However due to resource constraints only spring data for 2010 was collected. Volumes and occupancy data for HOV bypass lanes at metered freeway on-ramps are not included in this annual report; however, general information on these ramps is included. The intent of this HOV lane monitoring report is to compile statistics and measurements of collected data. This report should not be construed to be a conclusion on the performance of HOV lanes. In the future this report will be known as the Bay Area Managed Lanes report, as the report will include information and data on both HOV Lanes and Express Lanes. Managed Lanes are lanes that include strategies implemented to manage traffic demand in order to improve the efficiency and performance of corridors with high congestion.

Major changes in 2010:

- *A new section of HOV Lane on eastbound Interstate 580 from N. Livermore Ave. to Airway Blvd., in Alameda County, opened to traffic on July 19, 2010 and was extended from Airway Blvd. to Hacienda Blvd. on November 5, 2010. The limits of the HOV Lane are from Hacienda Blvd. to Greenville Rd., a distance of 10.4 miles.*
- *The HOV lane on southbound Interstate 680 from Route 84 to Route 237 in Alameda and Santa Clara County was converted into an Express Lane on September 20, 2010. This Express Lane allows single occupancy vehicles (SOVs) access for a fee while 2+ HOVs still have access to this lane free of charge. This Express Lane is buffer separated from the mixed-flow lanes with limited ingress and egress locations.*
- *Beginning on July 1, 2010 HOVs are required to pay a toll of \$2.50 during the HOV lane hours of operation at the seven state owed toll bridges in the San Francisco Bay Area. Previously HOVs were not charged a toll to cross these bridges.*

HOV Report Website: This report is available at www.dot.ca.gov/dist4/.

ACKNOWLEDGMENTS: The following Caltrans personnel contributed to the preparation of this report:

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Department of Transportation
District 4
Office of Highway Operations

High-Occupancy Vehicle Lanes in the Bay Area

HOV FACILITIES SUMMARIES

- **Comparison of HOV Lanes vs. Mixed Flow Lanes**
 - **Existing Mainline HOV Lanes**
 - **Metered On-Ramps with HOV Bypasses**
 - **Non-Metered HOV Lane On-Ramp**
 - **Mainline HOV Lanes Under Construction**
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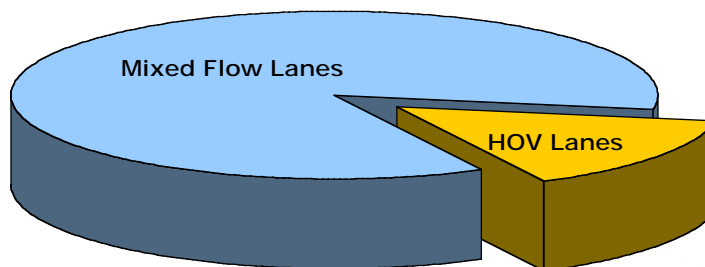
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COMPARISON OF HOV LANES VS. MIXED FLOW LANES (Peak-Hour)

VEHICLES

(366,314 - vehicles per hour)

85%—



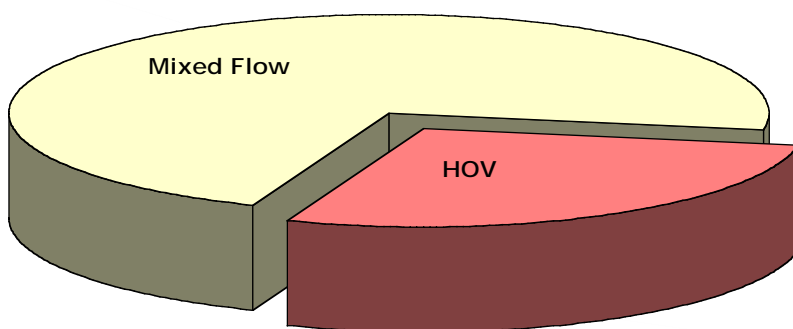
—15%

(63,340- vehicles per hour)

PEOPLE

(409,494 - persons per hour)

72%—



—28%

(160,395 - persons per hour)

NOTE: Data shown is the relative proportion of vehicles or people in the mixed flow and carpool lanes averaged over all count locations.

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EXISTING MAINLINE HOV LANES

Route	Dir	Limits	Lane-miles	Min. occ.	Period of operation*	
ALA-80	W/B	Bay Bridge Toll Plaza	1.1	3+	5-10 AM	3-7 PM
ALA-80	W/B	Contra Costa Co. Line to Powell St.	4.2	3+	5-10 AM	3-7 PM
	E/B	I 880 Viaduct to Contra Costa Co. Line	5.8	3+	5-10 AM	3-7 PM
ALA-84	W/B	I-880 to Dumbarton Bridge Toll Plaza	2.8	2+	5-10 AM	3-6 PM
ALA-92	W/B	Hesperian Blvd to San Mateo Bridge Toll Plaza	2.8	2+	5-10 AM	3-6 PM
ALA-580	E/B	Hacienda Dr to Greenville Rd	10.4	2+	5- 9 AM	3-7 PM
ALA-680	S/B	Route 84 to SCL County Line ^	11.2	2+	5:00 AM - 8:00 PM	
ALA-880	S/B	Marina Blvd to Santa Clara Co. Line	22.5	2+	5- 9 AM	3-7 PM
	N/B	Santa Clara Co. Line to South of Rte 238 I/C	19.1	2+	5- 9 AM	3-7 PM
ALA-880	N/B	West Grand Ave to Rte 80	1.1	3+	5-10 AM	3-7 PM
ALA-880	N/B	16th Street to SFOBB Toll Plaza	1.4	3+	5-10 AM	3-7 PM
CC-04	W/B	Loveridge Road to Port Chicago Hwy	8.7	2+	5- 9 AM	
	E/B	Port Chicago Hwy to Railroad Ave.	7.3	2+		3-7 PM
CC-80	W/B	Solano Co. Line to Alameda Co. Line	14.1	3+	5-10 AM	3-7 PM
	E/B	Alameda Co. Line to Rte 4	9.5	3+	5-10 AM	3-7 PM
CC-680	N/B	Benicia-Martinez Bridge Toll Plaza	1.0	3+	5-10 AM	3-7PM
CC-680	S/B	Marina Vista to N/O N. Main St.	7.8	2+	5- 9 AM	3-7 PM
	N/B	Route 242 to Marina Vista I/C	4.4	2+	5- 9 AM	3-7 PM
CC-680	S/B	Livorna Rd to Alcosta Blvd	11.9	2+	5- 9 AM	3-7 PM
	N/B	Alcosta Blvd to Livorna Rd	11.9	2+	5- 9 AM	3-7 PM
MRN-101	S/B	Route 37 to Richardson Bridge	14.1	2+	6:30-8:30 AM	
	N/B	Richardson Bridge to Route 37	14.4	2+		4:30-7 PM
SCL-85	S/B	Rte 101 (Mountain View) to Rte 101 (So. San Jose)	23.8	2+	5- 9 AM	3-7 PM
	N/B	Rte 101 (So. San Jose) to Rte 101 (Mt. View)	24.2	2+	5- 9 AM	3-7 PM
SCL-87	SB	Route 101 I/C to Route 85 I/C	9.6	2+	5- 9 AM	3-7 PM
	NB	Route 85 I/C to Route 101 I/C	9.2	2+	5- 9 AM	3-7 PM
SCL-101	S/B	San Mateo Co. Line to Cochrane Rd	34.2	2+	5- 9 AM	3-7 PM
	N/B	Cochrane Rd to San Mateo Co. Line	34.8	2+	5- 9 AM	3-7 PM
SCL-237	W/B	Jct. Rte 880/237 to Mathilda Ave	6.1	2+	5- 9 AM	3-7 PM
	E/B	Mathilda Ave to Rte 880/237 Jct.	6.5	2+	5- 9 AM	3-7 PM
SCL-280	S/B	Magdalena Ave to Meridian Ave	10.5	2+	5- 9 AM	3-7 PM
	N/B	Leland Ave to Magdalena Ave	10.8	2+	5- 9 AM	3-7 PM
SCL-680	S/B	ALA Co. Line to Rte 237 Calaveras Blvd. ^	2.3	2+	5:00 AM - 8:00 PM	
SCL-880	S/B	Alameda Co. Line to I-880/SR 237 Junction	2.0	2+	5- 9 AM	3-7 PM
	N/B	I-880/SR 237 Junction to Alameda Co. Line	2.0	2+	5- 9 AM	3-7 PM
SM-101	S/B	Whipple Ave to Santa Clara Co. Line	6.7	2+	5- 9 AM	3-7 PM
	N/B	Santa Clara Co. Line to Whipple Ave	6.9	2+	5- 9 AM	3-7 PM
SOL-80	W/B	Route 29 to Contra Costa Co. Line	0.9	3+	5-10 AM	3-7 PM
	E/B	Carquinez Bridge Toll Plaza	0.1	3+	5-10 AM	3-7 PM
SOL-80	W/B	East of Airbase Parkway to Red Top Rd	8.1	2+	5-10 AM	3-7 PM
	E/B	Red Top Rd to East of Airbase Parkway	8.2	2+	5-10 AM	3-7 PM
SON-101	S/B	Windsor River Road to Wilfred Avenue	13.8	2+	7- 9 AM	3-6:30 PM
	N/B	Wilfred Avenue to Windsor River Road	13.6	2+	7- 9 AM	3-6:30 PM

TOTAL EXISTING LANE-MILES

421.8

NOTE: * All HOV lanes currently operate Monday thru Friday.

^ Express Lane opened September 20, 2010

METERED ON-RAMPS with HOV BYPASS LANES

Route	Dir	Ramp	Hours	HOVL metered?	HOVL Date opened	Notes
ALA-580	EB	Airway Boulevard Loop	24 hrs	Yes	Jan 22, 2008	7 days/week
ALA-580	EB	El Charro Road diagonal	24 hrs	Yes	Nov 17, 2009	7 days/week
ALA-580	EB	El Charro Road Loop	24 hrs	Yes	Oct 7, 2009	7 days/week
ALA-580	EB	N/B Hacienda diagonal	24 hrs	Yes	Jun 30, 2003	7 days/week
ALA-580	EB	Hopyard Road Loop	24 hrs	Yes	Jun 30, 2003	7 days/week
ALA-580	EB	San Ramon/Foothill Blvd NB diagon	24 hrs	Yes	Jan 22, 2008	7 days/week
ALA-580	WB	Airway Boulevard Loop	24 hrs	Yes	Sep 16, 2008	7 days/week
ALA-580	WB	Airway Boulevard Diagonal	24 hrs	Yes	Sep 16, 2008	7 days/week
ALA-580	WB	Fallon Road Loop	24 hrs	Yes	Nov 23, 2009	7 days/week
ALA-580	WB	Fallon Road Diagonal	24 hrs	Yes	Nov 23, 2009	7 days/week
ALA-580	WB	S/B Santa Rita Rd Diagonal	24 hrs	Yes	Sep 16, 2008	7 days/week
ALA-580	WB	NB Hacienda Dr. Loop	24 hrs	Yes	Sep 16, 2008	7 days/week
ALA-580	WB	SB Hacienda Dr Diagonal	24 hrs	Yes	Sep 16, 2008	7 days/week
ALA-580	WB	Hopyard Road Loop	24 hrs	Yes	Sep 16, 2008	7 days/week
ALA-580	WB	Hopyard Road Diagonal	24 hrs	Yes	Sep 16, 2008	7 days/week
ALA-580	WB	San Ramon/Foothill Blvd SB diagon	24 hrs	Yes	Sep 16, 2008	7 days/week
ALA-880	NB	Dixon Landing diagonal	24 hrs	Yes	Mar 30, 2004	7 days/week
ALA-880	NB	Warren Avenue loop	24 hrs	Yes	May 25, 2010	7 days/week
ALA-880	NB	s/b Mission Blvd.(Rte262)	24 hrs	Yes	May 25, 2010	7 days/week
ALA-880	NB	Fremont Blvd loop	24 hrs	Yes	Oct 20, 1999	7 days/week
ALA-880	NB	Auto Mall Pkwy(Durham) loop	24 hrs	Yes	Oct 20, 1999	7 days/week
ALA-880	NB	Auto Mall Pkwy(Durham)diag	24 hrs	Yes	Oct 20, 1999	7 days/week
ALA-880	NB	Stevenson Blvd. diagonal	24 hrs	Yes	Oct 20, 1999	7 days/week
ALA-880	NB	E/B Mowry Ave loop	24 hrs	Yes	Oct 20, 1999	7 days/week
ALA-880	NB	Thornton Ave loop	24 hrs	Yes	Oct 20, 1999	7 days/week
ALA-880	NB	Thornton Ave diagonal	24 hrs	Yes	Oct 20, 1999	7 days/week
ALA-880	NB	Alvarado-Fremont Blvd diag	24 hrs	Yes	Oct 20, 1999	7 days/week
ALA-880	NB	Alvarado-Niles Rd diagonal	24 hrs	Yes	Oct 20, 1999	7 days/week
ALA-880	NB	Industrial Parkway diagonal	24 hrs	Yes	Dec 3, 1996	7 days/week
ALA-880	NB	Tennyson Rd diag	24 hrs	Yes	Dec 3, 1996	7 days/week
ALA-880	NB	West A-Street diag	24 hrs	Yes	Dec 3, 1996	7 days/week
ALA-880	NB	Lewelling Blvd diagonal	24 hrs	Yes	Apr 28, 1999	7 days/week
ALA-880	NB	98th Ave loop	24 hrs	Yes	Apr 28, 1999	7 days/week
ALA-880	NB	E/B 23rd Ave. diag	24 hrs	Yes	Apr 28, 1999	7 days/week
ALA-880	SB	Dixon Landing Loop	24hrs	Yes	Mar 30, 2004	7 days/week
ALA-880	SB	Mission Blvd connector	24hrs	Yes	May 25, 2010	7 days/week
ALA-880	SB	Warren Avenue loop	24hrs	Yes	May 25, 2010	7 days/week
ALA-880	SB	Fremont Blvd. diag	24 hrs	Yes	Oct 19, 1999	7 days/week
ALA-880	SB	Fremont Blvd. loop	24 hrs	Yes	Oct 19, 1999	7 days/week
ALA-880	SB	Auto Mall Pkwy(Durham)Diag	24 hrs	Yes	Oct 19, 1999	7 days/week
ALA-880	SB	Auto Mall Pkwy(Durham)loop	24 hrs	Yes	Oct 19, 1999	7 days/week
ALA-880	SB	W/B Mowry Ave loop	24 hrs	Yes	Oct 19, 1999	7 days/week
ALA-880	SB	Thornton Ave. diagonal	24 hrs	Yes	Oct 19, 1999	7 days/week
ALA-880	SB	Thornton Ave. loop	24 hrs	Yes	Oct 19, 1999	7 days/week
ALA-880	SB	Alvarado-Fremont Blvd diag	24 hrs	Yes	Oct 19, 1999	7 days/week

NOTES: (a) Minimum occupancy requirement for all HOV bypass lanes is two persons per vehicle.
 (b) Motorcycles and inherently low-emission vehicles (ILEVs) and hybrids with DMV issued decal are permitted

METERED ON-RAMPS with HOV BYPASS LANES

Route	Dir	Ramp	Hours	HOVL metered?	HOVL Date opened	Notes
ALA-880	SB	Alvarado-Niles Rd diagonal	24 hrs	Yes	Oct 19, 1999	7 days/week
ALA-880	SB	Alvarado-Niles Rd loop	24 hrs	Yes	Oct 19, 1999	7 days/week
ALA-880	SB	Whipple Rd diag	24 hrs	Yes	Oct 29, 1996	7 days/week
ALA-880	SB	Tennyson Rd diag	24 hrs	Yes	Oct 29, 1996	7 days/week
ALA-880	SB	Winton Ave diag	24 hrs	Yes	Oct 29, 1996	7 days/week
ALA-880	SB	West A-Street diag	24 hrs	Yes	Oct 29, 1996	7 days/week
ALA-880	SB	E/B Davis St(Route 112) diag	24 hrs	Yes	Apr 27, 1999	7 days/week
ALA-880	SB	W/B Davis St(Route 112)loop	24 hrs	Yes	Apr 27, 1999	7 days/week
ALA-880	SB	98th Ave diagonal	24 hrs	Yes	Apr 27, 1999	7 days/week
ALA-880	SB	Hegenberger diagonal	24 hrs	Yes	Apr 27, 1999	7 days/week
ALA-880	SB	Oak St. diagonal	24 hrs	Yes	Apr 27, 1999	7 days/week
SCL-17	NB	Camden Ave diag	24 hrs	Yes	May 11, 2007	7 days/week
SCL-85	NB	SB Rte 101 connector	5-9am & 3-7pm	Yes	Sep 20, 2004	Monday - Friday
SCL-85	NB	SB Rte 87 connector	5-9am & 3-7pm	Yes	Jul 8, 2003	Monday - Friday
SCL-85	NB	Bernal Rd Loop	24 hrs	Yes	Sep 20, 2004	7 days/week
SCL-85	NB	Bernal Rd diag	24 hrs	Yes	Aug 26, 1994	7 days/week
SCL-85	NB	Great Oaks Blvd diag	24 hrs	Yes	Aug 19, 1994	7 days/week
SCL-85	NB	Cottle Rd diag	24 hrs	Yes	Aug 19, 1994	7 days/week
SCL-85	NB	Blossom Hill Rd loop	24 hrs	Yes	Aug 19, 1994	7 days/week
SCL-85	NB	Santa Teresa Blvd loop	24 hrs	Yes	Oct 19, 1994	7 days/week
SCL-85	NB	Almaden Expwy loop	24 hrs	Yes	Mar 19, 1999	7 days/week
SCL-85	NB	Bascom Ave diag	24 hrs	Yes	Oct 19, 1994	7 days/week
SCL-85	NB	Winchester Blvd diag	24 hrs	Yes	Nov 14, 1994	7 days/week
SCL-85	NB	Saratoga Ave diag	24 hrs	Yes	Oct 20, 1994	7 days/week
SCL-85	SB	Almaden Expwy diag	24 hrs	Yes	Oct. 19, 1994	7 days/week
SCL-85	SB	Bascom Ave diag	24 hrs	Yes	Oct. 19, 1994	7 days/week
SCL-85	SB	Camden Ave diag	24 hrs	Yes	Apr 4, 1995	7 days/week
SCL-85	SB	Stevens Creek diag	24 hrs	Yes	Oct 19, 1994	7 days/week
SCL-87	NB	Rte 85 SB Connector	24 hrs	Yes	Jan 13, 2009	7 days/week
SCL-87	NB	Curtner Ave diag	24 hrs	Yes	Mar 16, 2007	7 days/week
SCL-87	NB	Almaden Expwy diag	24 hrs	Yes	May 11, 2007	7 days/week
SCL-87	NB	Lelong St diag	24 hrs	Yes	May 11, 2007	7 days/week
SCL-87	NB	Park Avenue diag	24 hrs	Yes	Jan 13, 2009	7 days/week
SCL-87	NB	Julian St diag	24 hrs	Yes	Jan 13, 2009	7 days/week
SCL-87	NB	Taylor St. diag	24 hrs	Yes	Jan 13, 2009	7 days/week
SCL-87	NB	Skyport Blvd diag	24 hrs	Yes	Jan 13, 2009	7 days/week
SCL-87	SB	Auzerias Ave/Delma St diag	24 hrs	Yes	Apr 7, 2009	7 days/week
SCL-87	SB	EB Julian St diag	24 hrs	Yes	Apr 7, 2009	7 days/week
SCL-87	SB	Taylor St. diag	24 hrs	Yes	Apr 7, 2009	7 days/week
SCL-87	SB	Skyport Blvd diag	24 hrs	Yes	Apr 7, 2009	7 days/week

METERED ON-RAMPS with HOV BYPASS LANES

Route	Dir	Ramp	Hours	HOVL metered?	HOVL Date opened	Notes
SCL-101	NB	Bernal Rd diagonal	24 hrs	Yes	Aug 1, 2005	7 days/week
SCL-101	NB	Blossom Hill diag	24 hrs	Yes	Jun 23, 1992	7 days/week
SCL-101	NB	Capitol Expwy diag	24 hrs	Yes	Jul 11, 1997	7 days/week
SCL-101	NB	SB Rte 680 connector	5:30-9am	Yes	Sep 2, 1982	Monday - Friday
SCL-101	NB	Guadalupe Pkwy connector	5:30-9am	Yes	Feb 12, 1980	Monday - Friday
SCL-101	NB	Trimble Rd diag	24 hrs	Yes	Nov 1, 1991	7 days/week
SCL-101	NB	San Tomas Expwy loop	5:30-9am	Yes	Feb 12, 1980	Monday - Friday
SCL-101	NB	Montague Expwy diag	24 hrs	Yes	Feb 12, 1980	7 days/week
SCL-101	NB	Lawrence Expwy (nb) loop	24 hrs	Yes	Mar 8, 1999	7 days/week
SCL-101	NB	Lawrence Expwy (sb)diag	24 hrs	Yes	Mar 8, 1999	7 days/week
SCL-101	SB	Bernal Rd diagonal	24 hrs	Yes	Aug 1, 2005	7 days/week
SCL-101	SB	Blossom Hill diag	24 hrs	Yes	Jun 23, 1992	7 days/week
SCL-101	SB	Capitol Expwy diag	24 hrs	Yes	Jul 11, 1997	7 days/week
SCL-101	SB	SB Rte 680 connector	5:30-9am	Yes	Sep 2, 1982	Monday - Friday
SCL-101	SB	Guadalupe Pkwy connector	5:30-9am	Yes	Feb 12, 1980	Monday - Friday
SCL-101	SB	Trimble Rd diag	24 hrs	Yes	Nov 1, 1991	7 days/week
SCL-101	SB	San Tomas Expwy loop	5:30-9am	Yes	Feb 12, 1980	Monday - Friday
SCL-101	SB	Montague Expwy diag	24 hrs	Yes	Feb 12, 1980	7 days/week
SCL-101	SB	Lawrence Expwy (nb) loop	24 hrs	Yes	Mar 8, 1999	7 days/week
SCL-101	SB	Lawrence Expwy (sb)diag	24 hrs	Yes	Mar 8, 1999	7 days/week
SCL-101	SB	De La Cruz Blvd. Diag	24 hrs	Yes	Nov 9, 2009	7 days/week
SCL-101	SB	Trimble Rd loop	24 hrs	Yes	Nov 9, 2009	7 days/week
SCL-101	SB	Montague Expwy diag	24 hrs	Yes	Nov 9, 2009	7 days/week
SCL-101	SB	Montague Expwy loop	24 hrs	Yes	Nov 9, 2009	7 days/week
SCL-101	SB	Bowers Ave Diag.	24 hrs	Yes	Nov 9, 2009	7 days/week
SCL-101	SB	Great America Pkwy Loop	24 hrs	Yes	Nov 9, 2009	7 days/week
SCL-101	SB	Lawrence Expwy Diag	24 hrs	Yes	Nov 9, 2009	7 days/week
SCL-101	SB	Lawrence Expwy Loop	24 hrs	Yes	Nov 9, 2009	7 days/week
SCL-101	SB	Fair Oaks Ave. Diag	24 hrs	Yes	Nov 9, 2009	7 days/week
SCL-101	SB	Fair Oaks Ave. Loop	24 hrs	Yes	Nov 9, 2009	7 days/week
SCL-101	SB	Mathilda Ave. Diag	24 hrs	Yes	Nov 9, 2009	7 days/week
SCL-101	SB	Mathilda Ave. Loop	24 hrs	Yes	Nov 9, 2009	7 days/week
SCL-101	SB	Ellis Street Diag	24 hrs	Yes	Nov 9, 2009	7 days/week
SCL-101	SB	Moffet Blvd. Diag	24 hrs	Yes	Nov 9, 2009	7 days/week
SCL-101	SB	Shoreline Blvd. Diag	24 hrs	Yes	Nov 9, 2009	7 days/week
SCL-101	SB	Rengstorff Ave. Diag	24 hrs	Yes	Nov 9, 2009	7 days/week
SCL-101	SB	Oregon Xpwy. Diag	24 hrs	Yes	Nov 9, 2009	7 days/week
SCL-101	SB	Embarcadero Ro. Loop	24 hrs	Yes	Nov 9, 2009	7 days/week
SCL-237	EB	Lawrence Expwy diag	24 hrs	Yes	Aug. 14, 1998	7 days/week
SCL-237	EB	Great America Pkwy diag	24 hrs	Yes	Sep 24, 1996	7 days/week
SCL-237	EB	N. First Street diag	24 hrs	Yes	Sep 24, 1996	7 days/week
SCL-237	EB	Zanker Rd diag	24 hrs	Yes	Sep 24, 1996	7 days/week

METERED ON-RAMPS with HOV BYPASS LANE

Route	Dir	Ramp	Hours	HOVL metered?	HOVL Date opened	Notes
SCL-280	NB	Wolfe Rd loop	6-9 am	Yes	Jun 8, 1976	Monday - Friday
SCL-280	SB	Wolfe Rd loop	24 hrs	Yes	Apr 27, 1993	7 days/week
SCL-280	SB	Wolfe Rd diag	24 hrs	Yes	Apr 27, 1993	7 days/week
SCL-280	SB	De Anza Blvd diag	24 hrs	Yes	Apr 27, 1993	7 days/week
SCL-880	SB	SB Coleman Ave diag	24 hrs	Yes	Jul 27, 2007	7 days/week
SCL-880	SB	NB Coleman Ave loop	24hrs	Yes	Jul 27, 2007	7 days/week
SCL-880	NB	Calaveras Blv (wb) (diag)	24 hrs	Yes	Sep 9, 2003	7 days/week
SCL-880	SB	Dixon Landing diagonal	24hrs	Yes	Mar 30, 2004	7 days/week
SM-101	NB	SB Marsh Rd diag	24 hrs	Yes	Feb 27, 2007	7 days/week
SM-101	NB	SB Woodside diag	24 hrs	Yes	Feb 27, 2007	7 days/week
SM-101	NB	EB Holly St collector	24 hrs	Yes	Feb 27, 2007	7 days/week
SM-101	NB	WB Holly St diag	24 hrs	Yes	Feb 27, 2007	7 days/week
SM-101	NB	EB Ralston/Marine collector	24 hrs	Yes	Feb 27, 2007	7 days/week
SM-101	NB	WB Ralston/Marine diag	24 hrs	Yes	Feb 27, 2007	7 days/week
SM-101	NB	EB Hillsdale Blvd loop	24 hrs	No	Feb 27, 2007	7 days/week
SM-101	SB	NB Marsh Rd diag	24 hrs	Yes	Jan 30, 2007	7 days/week
SM-101	SB	NB Woodside diag	24 hrs	Yes	Jan 30, 2007	7 days/week
SM-101	SB	EB Whipple Ave diag	24 hrs	Yes	Jan 30, 2007	7 days/week
SM-101	SB	Ralston-Harbor collector	24 hrs	Yes	Jan 30, 2007	7 days/week
SM-280	NB	Westborough Blvd. Diag	24 hrs	Yes	Oct 21, 2008	7 days/week

NON-METERED HOV LANE ON-RAMP

Route	Dir	Ramp	Hours	HOVL metered?	HOVL Date opened	Notes
SF-80	EB	Sterling St on-ramp to SFOBB	3:30-7:00 PM	No	Aug 30, 1982	

NOTES

- (a) *Minimum occupancy requirement is 3 or more persons per vehicle.*
- (b) *2 - seater vehicles with 2 persons, motorcycles, trucks and inherently low-emission vehicles (ILEVs) and hybrids with DMV issued decal are permitted.*

MAINLINE HOV LANES UNDER CONSTRUCTION

Estimated Opening	County Route	Location	Lane Miles	Min. Occ.
2013	CC-4	Loveridge to Somersville	4.2	2+
2011	CC-80	West of Rte 4 to Cummings Skyway (EB)	3.4	3+
2011	SON-101	Pepper Rd to Rohnert Park Exprwy	10.0	2+
2010	SON-101	Rohnert Park Exprwy to Wilfred Ave.	3.2	2+

TOTAL LANE-MILES UNDER CONSTRUCTION 20.8

DATA SUMMARIES

- **HOV Lane Peak Hour Volumes**
 - **HOV & Non-HOV Lane Peak Hour Comparisons**
 - **HOV Lane Peak Period Violation Rates**
 - **HOV Lane Peak Hour Time Savings and
Average Speeds**
-

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HOV LANE PEAK HOUR VOLUMES

			A.M. Peak Hr (veh)	P.M. Peak Hr (veh)
ALA-80	WB	Bay Bridge Toll Plaza	3941	941
ALA-80	WB	Contra Costa Co. Line to Powell St	1780	N/A
	EB	I 880 Viaduct to Contra Costa Co. Line	N/A	1566
ALA-80	WB	HOV FLYOVER	N/A	454
ALA-84	WB	I-880 to Dumbarton Bridge Toll Plaza	944	290
ALA-92	WB	Hesperian Blvd to San Mateo Bridge Toll Plaza	1056	422
ALA-580	EB	Hacienda Dr. to N. Livermore Ave.	N/A	830
		N. Livermore Ave to Greenville Rd	355	603
ALA-680	SB	Route 84 to ALA/SCL Co. Line ^	835	587
ALA-880	SB	Marina Blvd to Whipple Road	1054	1297
		Whipple Road to SCL County Line	1016	768
	NB	SCL County Line to Whipple Road	402	813
		Whipple Road to South of Rte 238 I/C	989	984
ALA-880	NB	16th St to SFOBB Toll Plaza	288	N/A
CC-04	WB	Loveridge Road to Port Chicago Hwy	1238	**
	EB	Port Chicago Hwy to Railroad Ave.	**	931
CC-80	WB	Solano Co. Line to Route 4	787	N/A
		Route 4 to Alameda Co. Line	1667	N/A
	EB	Alameda Co. Line to Route 4	N/A	1332
CC-680	N/B	Benicia-Martinez Bridge Toll Plaza	N/A	339
CC-680	SB	Marina Vista I/C to N/O North Main St	1375	300
	NB	Route 242 to Marina Vista I/C	228	468
CC-680	SB	Livorna Rd. to Alcosta Blvd.	801	989
	NB	Alcosta Blvd. to Livorna Rd.	855	900
MRN-101	SB	Route 37 to Mission Avenue	824	**
		Mission Avenue to Richardson Bridge	410	**
	NB	Richardson Bridge to Mission Avenue	**	640
		Mission Avenue to Route 37	**	747
SCL-85	SB	Rte 101 (Mountain View) to Rte 280	N/A	687
		Rte 280 to Almaden Expwy	N/A	821
		Almaden Expwy to Rte 101 (So. San Jose)	N/A	780
	NB	Rte 101 (So. San Jose) to Almaden Expwy	722	N/A
		Almaden Expwy to Rte 280	745	N/A
		Rte 280 to Rte 101 (Mountain View)	873	N/A
SCL-87	SB	Route 101 I/C to Route 280 I/C	N/A	696
		Route 280 I/C to Route 85/87 Jct	N/A	714
	NB	Route 85/87 Jct to Route 280 I/C	986	N/A
		Route 280 I/C to Route 101 I/C	660	N/A

HOV LANE PEAK HOUR VOLUMES

			A.M.	P.M.
			Peak Hr (veh)	Peak Hr (veh)
SCL-101	SB	San Mateo Co. Line to Ellis St	690	1541
		Ellis St to Guadalupe Pkwy	N/A	1162
		Guadalupe Pkwy to 101/280/680 I/C	N/A	803
		101/280/680 I/C to Bernal Rd	N/A	573
		Bernal Rd to Cochrane Rd	N/A	866
	NB	Cochrane Road to Bernal Road	834	N/A
		Bernal Rd to 101/280/680 I/C	771	N/A
		101/280/680 I/C to Guadalupe Pkwy	1476	N/A
		Guadalupe Pkwy to Ellis St	614	N/A
		Ellis St to San Mateo Co. Line	799	630
SCL-237	WB	Rte 880/237 Jct to Mathilda Ave	883	328
	EB	Mathilda Ave to Rte 880/237 Jct.	N/A	620
SCL-280	SB	Magdalena Ave to Leland Ave	N/A	584
	NB	Leland Ave to Magdalena Ave	437	N/A
SCL-680	SB	ALA/SCL Co. Line to Route 237 ^	N/A	478
SCL-880	SB	Alameda Co. Line to I 880/SR237 Junction	~	~
	NB	I 880/SR237 Junction to Alameda Co. Line	~	~
SM-101	SB	Whipple Ave to Santa Clara Co. Line	656	482
	NB	Santa Clara Co. Line to Whipple Ave	1033	825
SOL-80	WB	Route 29 to Contra Costa County Line	N/A	N/A
	EB	Carquinez Bridge Toll Plaza	N/A	849
SOL-80	WB	Airbase Parkway to Red Top Rd	347	235
	EB	Red Top Rd to Airbase Parkway	191	495
SON-101	SB	Windsor River Road to Route 12	108	150
		Route 12 to Wilfred Avenue	314	717
	NB	Wilfred Avenue to Route 12	308	571
		Route 12 to Windsor River Road	244	450

Notes:

N/A : Due to Resource shortfall 2010 data is not available.

** HOVL not in operation during this Peak Period.

~ Data Collection location not available within these limits

^ Volumes prior to the HOV Lane conversion to Express Lane

PEAK HOUR HOV & non-HOV LANE COMPARISONS

				% of all vehicles			% of all Persons			
					in HOVL	in Non-HOVL	in HOVL	in Non-HOVL	Number of Non-HOV Lanes	in Non-HOVL (Avg per Lane)
ALA-80	WB	Bay Bridge Toll Plaza		AM	42%	58%	68%	32%	18	2%
				PM	12%	88%	30%	70%	18	4%
ALA-80	WB	Contra Costa Co. Line to Powell Street		AM	21%	79%	41%	59%	4	15%
				PM	N/A	N/A	N/A	N/A	4	N/A
	EB	I 880 Viaduct to Contra Costa Co. Line		AM	N/A	N/A	N/A	N/A	4	N/A
				PM	19%	81%	37%	63%	4	16%
ALA-84	WB	I-880 to Dumbarton Bridge Toll Plaza		AM	21%	79%	38%	62%	3	21%
				PM	N/A	N/A	N/A	N/A	3	N/A
ALA-92	WB	Hesperian Blvd to San Mateo Bridge Toll Plaza		AM	23%	77%	40%	60%	3	20%
				PM	N/A	N/A	N/A	N/A	3	N/A
ALA-580	EB	Hacienda Dr. to N. Livermore Ave.		AM	N/A	N/A	N/A	N/A	3	N/A
				PM	15%	88%	27%	73%	3	26%
		N. Livermore Ave to Greenville Rd		AM	16%	87%	25%	75%	3	25%
				PM	12%	85%	22%	78%	3	24%
ALA-680	SB	Route 84 to ALA/SCL Co. Line		AM	13%	87%	22%	78%	3	26%
				PM	13%	87%	22%	78%	3	26%
ALA-880	SB	Marina Blvd to Whipple Rd		AM	21%	79%	42%	58%	3	19%
				PM	20%	80%	32%	68%	3	23%
		Whipple Rd to Santa Clara Co. Line		AM	19%	81%	33%	67%	3	22%
				PM	16%	84%	26%	74%	3	25%
	NB	Santa Clara Co. Line to Whipple Rd		AM	7%	93%	15%	85%	3	28%
				PM	13%	87%	25%	75%	3	25%
		Whipple Rd to South of Rte 238 I/C		AM	18%	82%	35%	65%	3	22%
				PM	18%	82%	32%	68%	3	23%
ALA-880	NB	16th Street to SFOBB		AM	19%	81%	36%	64%	2	32%
				PM	N/A	N/A	N/A	N/A	2	N/A
CC-04	WB	Liveridge Road to Port Chicago Hwy		AM	23%	77%	36%	64%	3	21%
	EB	Port Chicago to Railroad Avenue		PM	12%	88%	19%	81%	3	27%
CC-80	WB	Solano Co. Line to Route 4		AM	25%	75%	46%	54%	3	18%
				PM	N/A	N/A	N/A	N/A	3	N/A
		Route 4 to Alameda Co. Line		AM	24%	76%	57%	43%	3	14%
				PM	N/A	N/A	N/A	N/A	3	N/A
	EB	Alameda Co. Line to Route 4		AM	N/A	N/A	N/A	N/A	3	N/A
				PM	22%	78%	46%	54%	3	18%
CC-680	NB	Benicia-Martinez Bridge Toll Plaza EB		AM	4%	96%	9%	91%	11	8%
				PM	6%	94%	14%	86%	11	8%
CC-680	SB	Marina Vista I/C to N/O North Main St		AM	N/A	N/A	N/A	N/A	5	N/A
				PM	3%	97%	6%	94%	5	19%
	NB	Route 242 to Marina Vista I/C		AM	8%	92%	21%	79%	4	20%
				PM	11%	89%	19%	81%	4	20%
CC-680	SB	Livorna Rd to Alcosta Blvd		AM	15%	85%	27%	73%	3	24%
				PM	16%	84%	29%	71%	3	24%
	NB	Alcosta Blvd to Livorna Rd		AM	16%	84%	29%	71%	3	24%
				PM	16%	84%	25%	75%	3	25%
MRN-101	SB	Route 37 to Mission Avenue		AM	15%	85%	28%	72%	3	24%
		Mission Avenue to Richardson Bridge		AM	8%	92%	19%	81%	3	27%
	NB	Richardson Bridge to Mission Avenue		PM	12%	88%	27%	73%	3	24%
		Mission Avenue to Route 37		PM	12%	88%	25%	75%	3	25%
SCL-85	SB	Rte 101 (Mtn View) to Rte 280		AM	N/A	N/A	N/A	N/A	2	N/A
				PM	15%	85%	25%	75%	2	37%
		Rte 280 to Almaden Expwy		AM	N/A	N/A	N/A	N/A	2	N/A
				PM	17%	83%	27%	73%	2	37%
		Almaden Expwy to Rte 101 (So. San Jose)		AM	N/A	N/A	N/A	N/A	2	N/A
				PM	17%	83%	28%	72%	2	36%
	NB	Rte 101 (So. San Jose) to Almaden Expwy		AM	17%	83%	28%	72%	2	36%
				PM	N/A	N/A	N/A	N/A	2	N/A
		Almaden Expwy to Rte 280		AM	15%	85%	27%	73%	2	36%
				PM	N/A	N/A	N/A	N/A	2	N/A
		Rte 280 to Rte 101 (Mtn View)		AM	19%	81%	34%	66%	2	33%
				PM	N/A	N/A	N/A	N/A	2	N/A

PEAK HOUR HOV & non-HOV LANE COMPARISONS

				% of all vehicles		% of all Persons			
				in HOVL	in Non-HOVL	in HOVL	in Non-HOVL	Number of Non-HOV Lanes	in Non-HOVL (Avg per Lane)
SCL-87	SB	Route 101 I/C to Route 280 I/C	AM	N/A	N/A	N/A	N/A	2	N/A
			PM	15%	85%	27%	74%	2	37%
	NB	Route 280 I/C to Route 85/87 Jct	AM	N/A	N/A	N/A	N/A	2	N/A
			PM	17%	83%	28%	72%	2	36%
		Route 85/87 Jct to Route 280 I/C	AM	21%	79%	34%	66%	2	33%
			PM	N/A	N/A	N/A	N/A	2	N/A
SCL-101	SB	San Mateo Co. Line to Ellis St	AM	11%	89%	20%	80%	3	27%
			PM	25%	75%	38%	62%	3	21%
		Ellis St to Guadalupe Pkwy	AM	N/A	N/A	N/A	N/A	3	N/A
			PM	21%	79%	35%	65%	3	22%
		Guadalupe Pkwy to 101/280/680 I/C	AM	N/A	N/A	N/A	N/A	3	N/A
			PM	13%	87%	20%	80%	3	27%
	NB	101/280/680 I/C to Bernal Rd	AM	N/A	N/A	N/A	N/A	3	N/A
			PM	11%	89%	19%	81%	3	27%
		Bernal Rd to Cochrane Rd	AM	N/A	N/A	N/A	N/A	3	N/A
			PM	18%	82%	29%	71%	3	24%
		Cochrane Rd to Bernal Road	AM	13%	87%	22%	78%	3	26%
			PM	N/A	N/A	N/A	N/A	3	N/A
		Bernal Rd to 101/280/680 I/C	AM	14%	86%	25%	75%	3	25%
			PM	N/A	N/A	N/A	N/A	3	N/A
		101/280/680 I/C to Guadalupe Pkwy	AM	21%	79%	33%	67%	3	22%
			PM	N/A	N/A	N/A	N/A	3	N/A
		Guadalupe Pkwy to Ellis St	AM	9%	91%	17%	83%	3	28%
			PM	N/A	N/A	N/A	N/A	3	N/A
		Ellis St to San Mateo Co. Line	AM	13%	87%	22%	78%	3	26%
			PM	9%	91%	18%	82%	3	27%
SCL-237	WB	880/237 Jct to Mathilda Ave	AM	17%	83%	30%	70%	2	35%
			PM	8%	92%	14%	86%	2	43%
	EB	Mathilda Ave to Rte 880/237 Jct	AM	N/A	N/A	N/A	N/A	2	N/A
			PM	14%	86%	23%	77%	2	38%
SCL-280	SB	Magdalena Ave to Leland Ave	AM	N/A	N/A	N/A	N/A	3	N/A
			PM	11%	89%	18%	82%	3	27%
	NB	Leland Ave to Magdalena Ave	AM	7%	93%	13%	87%	3	29%
			PM	N/A	N/A	N/A	N/A	3	N/A
SCL-680	SB	SCL/ALA Co. Line to Route 237	AM	7%	93%	13%	87%	3	29%
			PM	9%	91%	15%	85%	3	28%
SCL-880	SB	Alameda Co. Line to I 880/SR237 Jct	AM	~	~	~	~	3	~
			PM	~	~	~	~	3	~
	NB	I 880/SR237 Jct to Alameda Co. Line	AM	~	~	~	~	3	~
			PM	~	~	~	~	3	~
SM-101	SB	Whipple Ave to Santa Clara Co. Line	AM	9%	91%	22%	78%	3	26%
			PM	7%	93%	13%	87%	3	29%
	NB	Santa Clara Co. Line to Whipple Ave	AM	18%	82%	30%	70%	3	23%
			PM	18%	82%	28%	72%	3	24%
SOL-80	WB	Route 29 to Contra Costa Co. Line	AM	N/A	N/A	N/A	N/A	3	N/A
			PM	N/A	N/A	N/A	N/A	3	N/A
	EB	Carquinez Bridge Toll Plaza	AM	N/A	N/A	N/A	N/A	11	N/A
			PM	18%	82%	36%	64%	11	6%
SOL-80	WB	East of Airbase Pkwy to Red Top Rd	AM	7%	93%	12%	88%	4	22%
			PM	7%	93%	17%	83%	4	21%
	EB	Red Top Rd to East of Airbase Pkwy	AM	5%	95%	13%	87%	4	22%
			PM	12%	88%	21%	79%	4	20%
SON-101	SB	Windsor River Rd to Route 12	AM	5%	95%	10%	90%	2	45%
			PM	7%	93%	12%	88%	2	44%
		Route 12 to Wilfred Avenue	AM	7%	93%	22%	78%	2	39%
			PM	14%	86%	25%	75%	2	cco
	NB	Wilfred Avenue to Route 12	AM	8%	92%	17%	83%	2	42%
			PM	13%	87%	25%	75%	2	37%
		Route 12 to Windsor River Rd	AM	7%	93%	13%	87%	2	43%
			PM	11%	89%	19%	81%	2	40%

* Total in all 4 HOVL's combined.

** Total in all 18 Non HOVL's combined.

~ Data collection location not available within these limits.

N/A : Due to Resource shortfall 2010 data is not available.

HOV LANE PEAK PERIOD VIOLATION RATE SUMMARY

			A.M.	P.M.
ALA-80	WB	Bay Bridge Toll Plaza	13.2%	13.2%
ALA-80	WB	Contra Costa Co. Line to Powell St	8.4%	N/A
	EB	I 880 Viaduct to Contra Costa Co. Line	N/A	14.0%
ALA-80	WB	HOV FLYOVER RAMP	N/A	19.5%
ALA-84	WB	I-880 to Dumbarton Bridge Toll Plaza	0.4%	0.8%
ALA-92	WB	Hesperian Blvd to San Mateo Bridge Toll Plaza	0.3%	0.9%
ALA-580	EB	Hacienda Dr. to N. Livermore Ave.	N/A	1.2%
		N. Livermore Ave to Greenville Road	3.4%	3.0%
ALA-680	SB	Route 84 to SCL/ALA Co. Line	0.6%	3.9%
ALA-880	SB	Marina Blvd to Whipple Road	5.8%	2.8%
		Whipple Road to Santa Clara Co. Line	1.2%	3.7%
	NB	Santa Clara Co. Line to Whipple Road	2.9%	6.4%
		Whipple Road to South of Rte 238 I/C	1.7%	1.6%
ALA-880	NB	16th St to SFOBB Toll Plaza	12.6%	N/A
CC-04	WB	Loveridge Road to Port Chicago Hwy.	2.6%	**
	EB	Port Chicago Hwy to Railroad Ave	**	2.1%
CC-80	WB	Solano Co. Line to Route 4	7.1%	N/A
		Route 4 to Alameda Co. Line	6.9%	N/A
	EB	Alameda Co. Line to Rte 4	N/A	10.0%
CC-680	NB	Benicia-Martinez Bridge Toll Plaza	N/A	59.4%
CC-680	SB	Marina Vista to N/O North Main St.	1.2%	4.9%
	NB	Route 242 to Marina Vista I/C	10.7%	5.4%
CC-680	SB	Livorna Rd. to Alcosta Blvd.	3.7%	1.4%
	NB	Alcosta Blvd. to Livorna Rd.	1.7%	2.0%
MRN-101	SB	Route 37 to Mission Avenue	1.3%	**
		Mission Avenue to Richardson Bridge	2.0%	**
	NB	Richardson Bridge to Mission Avenue	**	1.6%
		Mission Avenue to Route 37	**	1.2%
SCL-85	SB	Rte 101 (Mountain View) to Rte 280	N/A	2.3%
		Rte 280 to Almaden Expwy	N/A	2.4%
		Almaden Expwy to Rte 101 (So. San Jose)	N/A	1.5%
	NB	Rte 101 (So. San Jose) to Almaden Expwy	0.4%	N/A
		Almaden Expwy to Rte 280	2.6%	N/A
		Rte 280 to Rte 101 (Mountain View)	1.6%	N/A
SCL-87	SB	Route 101 I/C to Route 280	N/A	3.9%
		Route 280 to Route 85/87 Jct	N/A	7.8%
	NB	Route 85/87 Jct to Route 280	1.9%	N/A
		Route 280 to Route 101 I/C	0.4%	N/A
SCL-101	SB	San Mateo Co. Line to Ellis St	1.5%	3.1%
		Ellis St to Guadalupe Pkwy	N/A	0.6%
		Guadalupe Pkwy to 101/280/680 I/C	N/A	0.6%
		101/280/680 I/C to Bernal Rd	N/A	4.7%
		Bernal Rd to Cochrane Road	N/A	0.2%

HOV LANE PEAK PERIOD VIOLATION RATE SUMMARY

			A.M.	P.M.
	NB	Cochrane Rd to Bernal Rd	1.4%	N/A
		Bernal Rd to 101/280/680 I/C	0.7%	N/A
		101/280/680 I/C to Guadalupe Pkwy	2.0%	N/A
		Guadalupe Pkwy to Ellis St	0.9%	N/A
		Ellis St to San Mateo Co. Line	0.5%	0.6%
SCL-237	WB	880/237 Jct to Mathilda Ave	1.3%	0.0%
	EB	Mathilda Ave to Rte 880/237 Jct.	N/A	2.0%
SCL-280	SB	Magdalena Ave to Leland Ave	N/A	0.0%
	NB	Leland Ave to Magdalena Ave	0.7%	N/A
SCL-680	SB	SCL/ALA Co. Line to Route 237	N/A	3.4%
SCL-880	SB	Alameda Co. Line to I 880/SR237 Jct	~	~
	NB	I 880/SR237 Jct to Alameda Co. Line	~	~
SM-101	SB	Whipple Ave to Santa Clara Co. Line	5.7%	1.3%
	NB	Santa Clara Co. Line to Whipple Ave	0.2%	0.2%
SOL-80	WB	Route 29 to Contra Costa Co. Line	N/A	N/A
	EB	Carquinez Bridge Toll Plaza	N/A	6.5%
SOL-80	WB	Airbase Pkwy to Red Top Rd	2.9%	3.2%
	EB	Red Top Rd to Airbase Pkwy	1.5%	1.1%
SON-101	SB	Windsor River Road to Route 12	2.0%	1.4%
		Route 12 to Wilfred Avenue	4.2%	0.9%
	NB	Wilfred Avenue to Route 12	4.3%	1.6%
		Route 12 to Windsor River Road	1.2%	1.7%

N/A: Due to Resource shortfall 2010 data is not available.

~ Data collection location not available within these limits.

** HOV not in operation during this Peak Period

HOV LANE PEAK HOUR TIME SAVINGS AND AVERAGE SPEEDS

				Travel Time (minutes)	Travel Time (minutes)	HOVL Time Saving (minutes)	Avg. Speed (mph)	Avg. Speed (mph)
				Non-HOVL	HOVL		Non-HOVL	HOVL
ALA-80	WB	Bay Bridge Toll Plaza	AM	29	1	28	2	65
			PM	8	1	7	8	65
ALA-80	WB	Contra Costa Co. Line to Powell St	AM	12	6	6	21	42
			PM	4	4	0	63	65
	EB	I 880 Viaduct to Contra Costa Co. Line	AM	5	5	0	65	65
			PM	15	8	7	23	44
ALA-80	WB	HOV FLYOVER RAMP	AM	5	1	4	11	55
			PM	1	1	0	55	55
ALA-84	WB	I-880 to Dumbarton Bridge Toll Plaza	AM	4	2	2	38	65
			PM	3	2	1	54	65
ALA-92	WB	Hesperian Blvd to San Mateo Bridge Toll Plaza	AM	3	2	1	54	65
			PM	3	2	1	54	65
ALA-580	EB	Hacienda Dr. to Greenville Rd	AM	10	10	0	65	65
			PM	14	10	4	47	65
ALA-680	SB	Route 84 to ALA/SCL Co. Line	AM	16	12	4	49	65
			PM	12	12	0	65	65
ALA-880	SB	Marina Blvd. to Whipple Road	AM	24	13	11	22	41
			PM	14	13	1	39	41
		Whipple Road to Santa Clara Co. Line	AM	27	12	15	30	65
			PM	15	12	3	53	65
	NB	Santa Clara Co. Line to Whipple Road	AM	18	12	6	45	65
			PM	28	12	16	29	65
		Whipple Road to South of Rte 238 I/C	AM	12	5	7	27	65
			PM	13	5	8	25	65
ALA-880	NB	16th St to SFOBB Toll Plaza	AM	15	2	13	7	50
			PM	3	2	1	36	50
CC-04	WB	Loveridge Rd. to Port Chicago Hwy	AM	13	7	6	34	65
	EB	Port Chicago Hwy to West of Railroad Ave.	PM	21	7	14	22	65
CC-80	WB	Solano Co. Line to Route 4	AM	4	4	0	65	65
			PM	4	4	0	65	65
		Route 4 to Alameda Co. Line	AM	24	12	12	24	48
			PM	9	9	0	65	65
	EB	Alameda Co. Line to Rte 4	AM	9	9	0	65	65
			PM	21	13	8	27	44
CC-680	NB	N/O Marina Vista I/C to Benicia Bridge Toll Plaza	AM	4	1	3	8	65
			PM	5	1	4	7	65
CC-680	SB	Marina Vista I/C to N/O North Main St	AM	14	7	7	33	65
			PM	7	7	0	63	65
	NB	Route 242 to Marina Vista	AM	4	4	0	64	65
			PM	6	4	2	48	65
CC-680	SB	Livorna Rd to Alcosta Blvd	AM	14	10	4	48	65
			PM	12	10	2	53	65
	NB	Alcosta Blvd to Livorna Rd	AM	21	16	5	49	65
			PM	22	16	6	46	65
MRN-101	SB	Rte 37 to Mission Ave.	AM	14	12	2	33	38
		Mission Ave. to Richardson Bridge	AM	8	7	1	49	55
	NB	Richardson Bridge to Mission Ave.	PM	12	8	4	37	55
		Mission Ave. to Rte 37	PM	10	7	3	43	61
SCL-85	SB	Rte 101 (Mtn View) to Rte 280	AM	6	5	1	57	65
			PM	14	5	9	25	65
		Rte 280 to Almaden Expwy	AM	12	11	1	60	65
			PM	26	13	13	27	55
		Almaden Expwy to Rte 101 (So. San Jose)	AM	6	6	0	65	65
			PM	6	6	0	62	65
	NB	Rte 101 (So. San Jose) to Almaden Expwy	AM	15	6	9	25	65
			PM	6	6	0	60	65
		Almaden Expwy to Rte 280	AM	22	11	11	34	65
			PM	20	12	8	38	65
		Rte 280 to Rte 101 (Mtn View)	AM	21	5	16	16	65
			PM	6	5	1	54	65

HOV LANE PEAK HOUR TIME SAVINGS AND AVERAGE SPEEDS

				Travel Time (minutes)	Travel Time (minutes)	HOVL Time Saving (minutes)	Avg. Speed (mph)	Avg. Speed (mph)
				Non-HOVL	HOVL		Non-HOVL	HOVL
SCL-87	SB	Route 101 I/C to Route 280 I/C	AM	5	5	0	65	65
			PM	15	5	10	19	55
	NB	Route 280 I/C to Route 85/87 Jct	AM	4	4	0	65	65
			PM	15	4	11	19	65
		Route 85/87 Jct to Route 280 I/C	AM	16	6	10	24	65
			PM	6	6	0	65	65
	Route 280 I/C to Route 101 I/C	AM	17	3	14	12	65	
		PM	5	3	2	41	65	
SCL-101	SB	San Mateo Co. Line to Ellis St	AM	5	5	0	60	65
			PM	9	7	2	35	44
		Ellis St to Guadalupe Pkwy	AM	7	6	1	61	65
			PM	21	6	15	20	65
		Guadalupe Pkwy to 101/280/680 I/C	AM	5	5	0	65	65
			PM	17	8	9	21	44
	101/280/680 I/C to Bernal Rd	AM	7	7	0	65	65	
		PM	9	7	2	50	65	
	Bernal Rd to Cochrane Road	AM	9	8	1	61	65	
		PM	9	8	1	60	65	
	NB	Cochrane Road to Bernal Road	AM	9	9	0	64	65
			PM	9	9	0	65	65
		Bernal Rd to 101/280/680 I/C	AM	16	8	8	31	65
			PM	8	8	0	65	65
		101/280/680 I/C to Guadalupe Pkwy	AM	8	6	2	40	54
			PM	5	5	0	65	65
		Guadalupe Pkwy to Ellis Street	AM	10	7	3	46	65
			PM	11	7	4	39	65
		Ellis to San Mateo Co. Line	AM	15	7	8	20	41
			PM	11	9	2	29	33
SCL-237	WB	McCarthy Blvd to Mathilda Ave	AM	24	6	18	16	65
			PM	9	6	3	40	65
	EB	Mathilda Ave to Rte 880/237 Jct.	AM	9	6	3	46	65
			PM	22	6	16	17	65
SCL-280	SB	Magdalena Ave to Leland Ave	AM	10	10	0	63	65
			PM	13	10	3	48	65
	NB	Leland Ave to Magdalena Ave	AM	22	10	12	30	65
			PM	12	10	2	56	65
SCL-680	SB	ALA/SCL Co. Line to Rte 237	AM	3	2	1	47	65
			PM	2	2	0	65	65
SCL-880	SB	Alameda Co. Line to I-880/SR 237 Jct	AM	1	1	0	54	65
			PM	1	1	0	65	65
	NB	I-880/SR 237 Jct to Alameda Co. Line	AM	2	2	0	60	65
			PM	5	2	3	21	65
SM-101	SB	Whipple Ave to Santa Clara Co. Line	AM	17	6	11	24	65
			PM	18	6	12	23	65
	NB	Santa Clara Co. Line to Whipple Ave	AM	8	6	2	50	65
			PM	9	6	3	46	65
SOL-80	WB	Route 29 to Contra Costa Co. Line	AM	1	1	0	65	65
			PM	1	1	0	65	65
	EB	Carquinez Bridge Toll Plaza	AM	1	1	0	65	65
			PM	1	1	0	65	65
SOL-80	WB	Airbase Pkwy. to Red Top Rd.	AM	8	8	0	65	65
			PM	8	8	0	65	65
	EB	Red Top Rd. to Airbase Pkwy.	AM	8	8	0	65	65
			PM	8	8	0	65	65
SON-101	SB	Windsor River Rd. to Rte 12	AM	14	10	4	42	55
			PM	14	10	4	42	55
		Rte 12 to Wilfred Avenue	AM	5	4	1	48	65
			PM	10	4	6	24	65
	NB	Wilfred Ave. to Rte 12	AM	11	4	7	24	65
			PM	5	4	1	53	65
		Rte12 to Windsor River Rd.	AM	11	10	1	50	55
			PM	11	10	1	50	55
Overall Average Speed							43.9	61.8

GENERAL FACILITY INFORMATION

- **Mainline HOV Lanes**
 - **Toll Bridge HOV Bypass Lanes**
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MAINLINE HOV LANES

ALA-80: San Francisco-Oakland Bay Bridge Toll Plaza

OCCUPANCY	Three or more persons per vehicle, motorcycles, 2-seat vehicles with 2 persons, inherently low-emission vehicles (ILEVs) with DMV issued decal.	
WESTBOUND	HOURS:	5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday
	LIMITS:	<div> <div>Lane 1:</div> <div>Route 880 left side HOV ramp to metering signals Length = 0.4 mile</div> </div> <div> <div>Lane 2:</div> <div>Route 580 connector to metering signals Length = 1.1 miles</div> </div> <div> <div>Lane 21:</div> <div>Route 880 right side HOV ramp to metering signals Length = 0.6 mile</div> </div> <div> <div>Lane 22:</div> <div>HOV slip ramp to metering signals Length = 0.8 miles</div> </div>
	DATES:	<div> <div>Apr 17, 1970</div> <div>Opened; Buses only</div> </div> <div> <div>Dec 8, 1971</div> <div>Carpools permitted; min. occ. three persons per vehicle</div> </div> <div> <div>Feb 2, 1979</div> <div>Buses only in lane 17; 6:30-8:30, Mon-Fri-only lane on W. Grand Ave, approached from Maritime on-ramp to toll plaza; temporary measure in response to BART tube closure</div> </div> <div> <div>Apr 17, 1979</div> <div>Bus-only in lane 17 & W. Grand Ave approach made permanent; W. Grand Ave slip ramp designated for buses only; hours of operation changed to 6:00-9:00 AM, Mon-Fri; lane 8 reverted to mixed flow; carpools permitted to use lane 10 during AM peak</div> </div> <div> <div>Oct 12, 1981</div> <div>Opened; lanes 18 & 19; buses only, 24 hours/day, 7 days/week; carpools permitted, 6:00-9:00 AM, Mon-Fri; lane 17 reverted to mixed flow</div> </div> <div> <div>Jul 18, 1983</div> <div>Lanes 8 & 9 reverted to mixed flow; lane 1 converted to HOV; lanes 18/19 merge moved from downstream of toll plaza to downstream of metering signals</div> </div> <div> <div>Apr 22, 1986</div> <div>Mini toll plaza (lane 18, 19, 20) opened; right side HOV lanes designated as lanes 21 & 22</div> </div> <div> <div>Sep 7, 1988</div> <div>Hours of Operation were extended from 6-9 AM to 5-10 AM on September 7, 1988.</div> </div> <div> <div>Sep 7, 1988</div> <div>The HOVL violation fine increased in early 1989.</div> </div> <div> <div>Nov 3, 1989</div> <div>Lane 2 converted to HOV; left HOVL extended upstream to 32nd St on-ramp; AM HOV hours changed to 5:00- 10:00 AM, Mon-Fri</div> </div> <div> <div>Mar 1, 1992</div> <div>Motorcycles permitted</div> </div> <div> <div>Oct 1, 1995</div> <div>Two-seat vehicles with two occupants permitted</div> </div> <div> <div>Apr 8, 1997</div> <div>HOV slip ramp approaching right side of toll plaza opened; buses only, 24 hours/day, 7 days/week; carpools/motorcycles OK, 5:00-10:00 AM, 3:00-6:00 PM, Mon-Fri</div> </div> <div> <div>Jul 23, 1997</div> <div>Route 880 right side HOV ramp opened; buses only, 24 hours/day, 7 days/week; carpools/motorcycles OK, 5:00-10:00 AM; 3:00-6:00 PM, Mon-Fri</div> </div> <div> <div>Feb. 2, 1998</div> <div>PM Hours of operation changed to 3:00-7:00 PM</div> </div> <div> <div>May 16, 1998</div> <div>Route 880 left side HOV ramp opened; buses/carpools/ motorcycles only, 5:00-10:00 AM, 3:00-7:00 PM, Mon-Fri</div> </div> <div> <div>Jul 1, 2000</div> <div>Inherently low-emission vehicles with DMV issued decals permitted.</div> </div> <div> <div>Jul 1, 2010</div> <div>HOVs charged \$2.50 toll and required to use designated toll booths or toll lanes.</div> </div>

ALA-80: HOV FLYOVER

OCCUPANCY	Three or more persons per vehicle, motorcycles, 2 seaters vehicles with 2 persons, inherently low-emission vehicles (ILEVs) with DMV issued decal.	
WESTBOUND	HOURS:	5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday
	LIMITS:	Powell St (MP 3.8) to HOV Slip Ramp(MP. 4.8) Length = 1.0 miles
	Feb 2, 1998	Opened; HOV flyover. Hours of operation 5:00 AM-7:00 PM, Monday thru Friday
	Aug 3, 1998	Hours of operation changed to 5-10 AM, 3-7 PM, Mon-Fri

ALA-80: Contra Costa County Line to I-880 Viaduct

OCCUPANCY	Three or more persons per vehicle, motorcycles, 2 seaters vehicles with 2 persons, inherently low-emission vehicles (ILEVs) with DMV issued decal.	
WESTBOUND	HOURS:	5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday
	LIMITS:	Contra Costa County Line (MP 8.0) to Powell St (MP 3.8) Length = 4.2 miles
	DATES:	Feb. 2, 1998 Opened; Contra Costa County Line to Powell St; HOV flyover opened; hours of operation 5:00 AM-7:00 PM, Monday thru Friday
	Aug 3, 1998	Hours of operation changed to 5-10 AM, 3-7 PM, Mon-Fri
EASTBOUND	HOURS:	5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday
	LIMITS:	I-880 Viaduct(MP 2.2) to Contra Costa County Line (MP 8.0) Length = 5.8 miles
	DATES:	Jul 31, 1998 Opened; Gilman St to Contra Costa County Line
	Aug 3, 1998	Hours of operation changed to 5-10 AM, 3-7 PM, Mon-Fri
	Nov 20, 1998	Extended; Powell St to Gilman St.
	Nov 12, 2003	Extended; I 880 Viaduct to Powell St.

ALA-84: I-880 to Dumbarton Bridge Toll Plaza

OCCUPANCY	Two or more persons per vehicle, motorcycles, inherently low-emission vehicles (ILEVs) with DMV issued decal.	
WESTBOUND	HOURS:	5:00 - 10:00 AM, 3:00 - 6:00 PM, Monday thru Friday
	LIMITS:	I-880 (MP 5.9) to west of Toll Plaza (MP 3.1) Length = 2.8 miles
	DATES:	Oct 6, 1982 Opened with new bridge; 1000-ft long bypass lane at booths
	Nov 22, 1989	Extended due to Loma Prieta quake; Newark Blvd to University Ave
	Nov 17, 1990	Shortened; Newark Blvd to west of Toll Plaza
	Jan 1, 1992	Minimum occupancy reduced from three to two persons per vehicle
	Jul 31, 2008	Extended; I-880/SR 84 Jct to Newark Blvd.
	Jul 1, 2010	HOVs charged \$2.50 toll and required to use designated toll lane.

ALA-92: Hesperian Blvd to San Mateo Bridge Toll Plaza

OCCUPANCY	Two or more persons per vehicle, motorcycles, inherently low-emission vehicles (ILEVs) with DMV issued decal.	
WESTBOUND	HOURS:	5:00 - 10:00 AM, 3:00 - 6:00 PM, Monday thru Friday
	LIMITS:	Hesperian on-ramp (MP 5.6) to Toll Plaza (MP 2.8) Length = 2.8 miles
	DATES:	Oct 23, 1989 Opened; Clawiter Rd on-ramp to east of Toll Plaza Jan 1, 1992 Minimum occupancy reduced from three to two persons per vehicle Jan 15, 1992 Extended; Clawiter Rd on-ramp to west of Toll Plaza Jul 2, 2001 Extended and relocated; Hesperian Blvd. To West of Toll Plaza Jun 3, 2003 Speed changed from 55mph to 65 mph July 8, 2007 Lane #1 and #2 opened for HOVs during both AM and PM peak periods. July 1, 2010 HOVs charged \$2.50 toll and required to use designated toll booths.

ALA-580: Hacienda Dr. to Greenville Road

OCCUPANCY	Two or more persons per vehicle, motorcycles, inherently low-emission vehicles (ILEVs) with DMV issued decal.	
Eastbound	HOURS:	5:00 - 10:00 AM, 3:00 - 6:00 PM, Monday thru Friday
	LIMITS:	Hacienda Dr(MP19.05) to Greenville Road(MP 8.7) Length = 10.4 miles
	DATES:	Oct 2, 2009 Opened; N. Livermore Ave to Greenville Road Jul 19, 2010 Extended; Airway Blvd on-ramp to N Livermore Ave Nov 5, 2010 Extended; Hacienda Dr to Airway Blvd.

ALA-680: Route 84 to ALA/SCL Co. Line

OCCUPANCY	Two or more persons per vehicle, motorcycles, inherently low-emission vehicles (ILEVs) with DMV issued decal.	
SOUTHBOUND	HOURS:	5:00 - 8:00 PM, Monday thru Friday
	LIMITS:	Route 84 on-ramp (MP R11.5) to Route 237 Calaveras Blvd. On-ramp (MP 7.6) Length = 11.2 miles
	DATES:	Nov 26, 2002 Opened; Washington Blvd. On-ramp to Route 237 Calaveras Blvd. On-ramp Dec 5, 2002 Extended; Route 84 on-ramp to Route 237 Calaveras Blvd. On-ramp Sep 20, 2010 HOV Lane converted to Express Lane.

ALA 880: Marina Blvd to Santa Clara County Line

OCCUPANCY	Two or more persons per vehicle, motorcycles, inherently low-emission vehicles (ILEVs) with DMV issued decal.	
SOUTHBOUND	HOURS:	5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday
	LIMITS:	Marina Blvd. (MP 22.7) to Santa Clara County Line (MP 0.0) Length = 22.5 miles
	DATES:	Sep 22, 1991 Opened; A-Street to north of Tennyson Nov 6, 1991 Extended; Tennyson to Industrial Pkwy Jun 26, 1992 Extended; Rte 238 to A-Street Nov 18, 1993 Extended; Industrial Pkwy to Whipple Rd Dec 1994 Hours of operation changed from 5-10 AM and 3-6 PM to 5-9 AM, 3-7 PM respectively Mar 17, 1995 Extended; Marina Blvd to Rte 238 Jun 15, 1998 Extended; Whipple Rd. to Alvarado/ Fremont Blvd. Oct 23, 1998 Extended; Alvarado/Fremont Blvd. to Mowry Ave. Dec 11, 1998 Extended; Mowry Ave. to Mission Blvd. (Rte 262) Aug 11, 2007 Extended; S/O Mission Blvd. (Rte 262) to Santa Clara County Line Nov 17, 2008 Extended; Mission Blvd. (Rte 262) to S/O Mission Blvd. (Rte 262)
NORTHBOUND	HOURS:	5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday
	LIMITS:	Santa Clara County Line (MP 0.0) to one mile south of Rte 238 (MP 19.3) Length = 19.1 miles
	DATES:	Sep 19, 1991 Opened; north of Tennyson to A-Street Nov 8, 1991 Extended; Industrial Pkwy to Tennyson Jun 26, 1992 Extended; A-Street to Rte 238 Dec 3, 1993 Extended; Whipple Rd to Industrial Pkwy Dec 1994 Hours of operation changed from 5-10 AM and 3-6 PM to 5-9 AM, 3-7 PM respectively Sep 23, 1996 Shortened; Whipple Rd to one mile south of Rte 238 Jun 15, 1998 Extended; Alvarado/Fremont Blvd. to Whipple Rd. Oct 30, 1998 Extended; Mowry Ave. to Alvarado/Fremont Blvd. Nov 30, 1998 Extended; Mission Blvd. (Rte 262) to Mowry Ave. Nov 11, 2008 Extended; Santa Clara County Line to Mission Blvd. (Rte 262)

ALA-880: 16th Street to SFOBB Toll Plaza

OCCUPANCY	Three or more persons per vehicle, motorcycles, 2-seat vehicles with 2 persons, inherently low-emission vehicles (ILEVs) with DMV issued decal.	
NORTHBOUND	HOURS:	5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday
	LIMITS:	16th Street to NB Rte 880/WB Rte 80 Jct Length = 1.4 miles
	DATES:	May 16, 1998 Opened; 16th Street to left HOV ramp at SFOBB Toll Plaza

ALA-880: West Grand Ave. to EB Rte 80 HOV Lane Merge

OCCUPANCY	Three or more persons per vehicle, motorcycles, 2-seat vehicles with 2 persons, inherently low-emission vehicles (ILEVs) with DMV issued decal.	
NORTHBOUND	HOURS: 5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday	
	LIMITS:	West Grand Ave.(MP R34.7) to EB Rte 80 HOV Lane Merge (MP R35.8) Length = 1.1 miles
	DATES:	Nov 12, 2003 Opened; West Grand Ave to EB Rte 80 HOV Lane Merge

CC-4: Loveridge Rd. to Port Chicago Highway

OCCUPANCY	Two or more persons per vehicle, motorcycles, inherently low-emission vehicles (ILEVs) with DMV issued decal.	
WESTBOUND	HOURS: 5:00 - 9:00 AM, Monday thru Friday	
	LIMITS:	Loveridge Rd. (MP 24.4) to Port Chicago Highway (MPR 15.7) Length = 8.7 miles
	DATES:	May 1, 2000 Opened; Bay Point to Port Chicago Highway; 6-9 AM, Mon-Fri May 5, 2000 Extended: Bailey Road to Port Chicago Highway Jul 23, 2001 Extended: West of Railroad Ave. to Port Chicago Highway Jul 24, 2006 Extended: Loveridge Rd. to Port Chicago Highway Sep 28, 2009 Hours of Operations changed to 5:00-9:00 A.M.
EASTBOUND	HOURS: 3:00 - 7:00 PM, Monday thru Friday	
	LIMITS:	Port Chicago Highway (MPR 16.2) to Railroad Ave. (MPR23.5) Length = 7.3 miles
	DATES:	Aug 6, 2001 Opened; Port Chicago Highway to West of Railroad Ave. Jul 24, 2006 Extended: Port Chicago Highway to Railroad Ave.

CC-80 Solano County Line to Alameda County Line

OCCUPANCY	Three or more persons per vehicle, motorcycles, 2-seat vehicles with 2 persons, inherently low-emission vehicles (ILEVs) with DMV issued decal.	
WESTBOUND	HOURS: 5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday	
	LIMITS:	Solano County Line (MP 14.1) to Alameda County Line (MP 0.0) Length = 14.1 miles

DATES:	Mar 5, 1997	Opened; Pinole Valley Rd to Cutting Blvd; 5-10 AM, Mon-Fri
	Apr 18, 1997	2-seat vehicles with 2 persons permitted to use HOVL
	May 3, 1997	Extended: Cutting Blvd to Central Ave
	Sep 20, 1997	Extended; Route 4 to Pinole Valley Rd
	Feb 2, 1998	Extended; Central Ave to Alameda County Line;
		Hours of operation changed to 5:00 AM-7:00 PM, Mon-Fri
	Aug 3, 1998	Hours of operation changed to 5-10 AM, 3-7 PM, Mon-Fri
	Aug 31, 2007	Extended; Cummings Skyway to Route 4
	Nov 17, 2007	Extended; Solano County Line to Cummings Skyway

EASTBOUND HOURS: 5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: Alameda County Line (MP 0.0) to West of Route 4 off-ramp (MP 9.5)
Length = 9.5 miles

DATES:	Feb 12, 1997	Opened; San Pablo Dam Rd to Pinole Valley Rd; 3-7 PM, Mon-Fri
	Feb 13, 1997	Extended; Cutting Blvd to San Pablo Dam Rd
	Apr 18, 1997	2-seat vehicles with 2 persons permitted to use HOVL
	May 3, 1997	Extended; Central Ave to Cutting Blvd
	Aug 30, 1997	Extended; Pinole Valley Rd to Route 4
	Feb 2, 1998	Hours of operation changed to 5:00 AM-7:00 PM, Mon-Fri
	Aug 3, 1998	Hours of operation changed to 5-10 AM, 3-7 PM, Mon-Fri
		Extended; Central Ave to Alameda County Line

CC-680: N/O Marina Vista to Benicia-Martinez Bridge Toll Plaza

OCCUPANCY Three or more persons per vehicle, motorcycles, 2-seat vehicles with 2 persons, inherently low-emission vehicles (ILEVs) with DMV issued decals.

NORTHBOUND HOURS: 5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: Benicia-Martinez Bridge Toll Plaza (24.5) to North of Marina Vista(24.1)
Length = 1.0 miles

DATES:	Aug 26, 2007	Opened; Opened with new bridge; 1.0 mile long bypass lane #1 from N/O Marina Vista to Toll Plaza
	Jul 1, 2010	HOVs charged \$2.50 toll and required to use designated toll booth or toll lane.

CC-680: Marina Vista to N/O North Main St.

OCCUPANCY Two or more persons per vehicle, motorcycles, inherently low-emission vehicles (ILEVs) with DMV issued decal.

SOUTHBOUND HOURS: 5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: South of Marina Vista(MP 24.1) to 0.7 miles N/O North Main St. off-ramp (MP 16.3)
Length = 7.8 miles

DATES:	Sep 11, 2004	Opened; S/O Route 4 to N/O North Main St.
	Jun 14, 2005	Extended S/O Marina Vista to North Main St.
	Sep 28, 2009	Hours of Operations changed to 5:00-9:00 AM

NORTHBOUND HOURS: 5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: Route 242 I/C (R18.7) to South of Marina Vista(24.1)
Length = 4.4 miles

DATES: Apr 28, 2005 Opened; Route 242 to South of Marina Vista.
Sep 28, 2009 Hours of Operations changed to 5:00-9:00 AM

CC-680: Livorna Rd to Alcosta Blvd.

OCCUPANCY Two or more persons per vehicle, motorcycles, inherently low-emission vehicles (ILEVs)
with DMV issued decal.

SOUTHBOUND HOURS: 5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: 0.5 miles north of Livorna Rd off-ramp (MP R11.3) to north of
Alcosta Blvd on-ramp (MP R21.3)

Length = 11.9 miles

DATES: Oct 3, 1994 Opened; Stone Valley Rd on-ramp to Alcosta Blvd on-ramp
Feb 6, 1995 Extended; Livorna Rd on-ramp to Alcosta Blvd
May 5, 1999 Shortened; Livorna Rd on-ramp to north of Alcosta Blvd off-ramp
Sep 28, 2009 Hours of Operations changed to 5:00-9:00 AM , 3:00-7:00 PM

NORTHBOUND HOURS: 5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: 0.4 miles south of Alcosta on-ramp (MP R0.0) to Livorna
on-ramp (MP R11.9)

Length = 11.9 miles

DATES: Oct 3, 1994 Opened; Alcosta Blvd on-ramp to Stone Valley Rd on-ramp
Feb 6, 1995 Extended; Alcosta Blvd to Livorna Rd on-ramp
Sep 28, 2009 Hours of Operations changed to 5:00-9:00 AM , 3:00-7:00 PM

MRN-101: Route 37 to Richardson Bridge

OCCUPANCY Two or more persons per vehicle, motorcycles permitted, inherently low-emission vehicles (ILEVs)
with DMV issued decal.

SOUTHBOUND HOURS: 6:30 - 8:30 AM, Monday thru Friday

LIMITS: Route 37 (MP18.9) to Richardson Bridge (MP 4.8)
Length = 14.1 miles

DATES: Dec 23, 1974 Opened; buses only
Jun 16, 1976 Carpools permitted; min. occ. three persons per vehicle
Jul 24, 1987 Opened; Marinwood to North San Pedro Rd
Oct 1, 1988 Minimum occupancy reduced from three to two persons per vehicle
Sep 23, 1990 Motorcycles permitted
Feb 8, 1991 Extended; Marinwood to Rte 37
Jul 13, 1998 HOV hours extended to 5:00-9:00 AM
Dec 14, 1998 Extended hours cancelled
Jul 17, 2006 Extended; Andersen Dr. to North of Greenbrae ped OC
Nov 13, 2008 Extended; Mission Ave. to Anderson Dr.
Feb 2, 2009 Continuous HOV Lane; New Limit; Rte 37 to Richardson Bridge

NORTHBOUND HOURS: 4:30 - 7:00 PM, Monday thru Friday

LIMITS: Richardson Bridge (MP 3.9) to South of Route 37 (MP18.3)
Length = 14.4 miles

DATES: Dec 20, 1974 Opened; buses only
 Jun 15, 1976 Carpools permitted; min. occ. three persons per vehicle
 Aug 12, 1986 Opened; North San Pedro to Marinwood
 Oct 1, 1988 Minimum occupancy reduced from three to two persons per vehicle
 Sep 23, 1990 Motorcycles permitted
 Jul 13, 1998 HOV hours extended to 3:00-7:00 PM
 Dec 14, 1998 Extended hours cancelled
 Jul 20, 2006 Extended: North of Corte Madera to Nellen Ave. UC
 Apr 24, 2009 Continuous HOV Lane. New Limit; Richardson Bridge to Rte 37

SCL-85: Rte 101 (Mountain View) to Rte 101 (San Jose)

OCCUPANCY Two or more persons per vehicle, motorcycles, inherently low-emission vehicles (ILEVs)
with DMV issued decal.

SOUTHBOUND HOURS: 5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: Rte 85/101 connector ramp in So. San Jose (MP 23.8) to Rte 101 in
Mountain View (MP 0.0)
Length = 23.8 miles

DATES: Apr 25, 1990 Opened; Rte 237 to Rte 280
 Aug 12, 1994 New section; Almaden Expwy to Bernal Rd
 Oct 19, 1994 Extended; Rte 280 to Almaden Expwy
 Nov 13, 1998 Extended; Rte 101 (Mountain View) to Rte 237
 Oct 22, 2004 Opened direct HOV Connector from Rte 85 to Rte 101(San Jose)
 May 26, 2006 Opened direct HOV Connector from Rte 101 to Rte 85(Mountain View)

NORTHBOUND HOURS: 5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: Rte 85/101 connector ramp in So. San Jose (MP 0.0) to
Rte 101 in Mountain View (MP 24.2)
Length = 24.2 miles

DATES: Feb 22, 1990 Opened; Rte 280 to Rte 237
 Aug 12, 1994 New section; Rte 101 (San Jose) to Almaden Expwy
 Oct 19, 1994 Extended; Almaden Expwy to Rte 280
 Nov 6, 1998 Extended; Rte 237 to Rte 101 (Mountain View)
 Sep 20, 2004 Opened direct HOV Connector from Rte 101 to Rte 85(San Jose)
 May 26, 2006 Opened direct HOV Connector from Rte 85 to Rte 101(Mountain View)

SCL-87: Route 101 I/C to Route 85 I/C

OCCUPANCY	Two or more persons per vehicle, motorcycles, inherently low-emission vehicles (ILEVs) with DMV issued decal.	
SOUTHBOUND	HOURS:	5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday
	LIMITS:	Route 101 I/C to Route 85 I/C Length = 9.6 miles
	DATES:	Dec 23, 2004 Opened; Rte 101 to Taylor Avenue Mar 16, 2007 New Section; Rte 280 to SR 85 Jul 26, 2007 Extended; Taylor Avenue to Route 280
NORTHBOUND	HOURS:	5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday
	LIMITS:	Route 85 I/C (MP0.0) to Route 101 I/C (MP9.2) Length = 9.2 miles
	DATES:	Apr 18, 2005 Opened; Taylor Avenue to Rte 101 Feb 4, 2007 New Section; SR 85 to Rte 280 May 24, 2007 Extended; Rte 280 to Taylor Avenue

SCL-101: San Mateo County Line to Cochrane Rd

OCCUPANCY	Two or more persons per vehicle, motorcycles, inherently low-emission vehicles (ILEVs) with DMV issued decal.	
SOUTHBOUND	HOURS:	5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday
	LIMITS:	San Mateo County Line (MP 52.6) to 0.5 mile north of Cochrane Rd off-ramp (MP 18.4) Length = 34.2 miles
	DATES:	Nov 10, 1986 Opened; Lawrence Expwy to De La Cruz Blvd Aug 8, 1988 Extended; Ellis St to Lawrence Expwy Oct 10, 1988 Extended; N. Rengstorff Ave to Ellis St Dec 12, 1988 Extended; San Mateo Co. Line to N. Rengstorff Ave Jun 15, 1990 New section; Rte 101/280/680 I/C to north of Bernal Rd Jan 29, 1993 Extended; Rte 880 to Rte 101/280/680 I/C Apr 5, 1993 Extended; De La Cruz Blvd to Rte 880 Mar 19, 2003 Opened; Bernal Road to Cochrane Road
NORTHBOUND	HOURS:	5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday
	LIMITS:	Cochrane Rd on-ramp (MP 17.8) to San Mateo County Line (MP 52.6) Length = 34.8 miles
	DATES:	Nov 7, 1986 Opened; Guadalupe Pkwy to Great America Pkwy Oct 10, 1988 Extended; Great America Pkwy to N. Rengstorff Ave Dec 12, 1988 Extended; N. Rengstorff Ave to San Mateo Co. Line Jun 7, 1990 New section; Bernal Rd to Rte 101/280/680 I/C Feb 1, 1993 Extended; Rte 101/280/680 I/C to Old Oakland Rd Apr 5, 1993 Extended; Old Oakland Rd to Guadalupe Pkwy May 19, 2003 Opened; Cochrane Rd to Bernal Road

SCL-237: Rte 880 to Mathilda Ave

OCCUPANCY	Two or more persons per vehicle, motorcycles, inherently low-emission vehicles (ILEVs) with DMV issued decal.	
WESTBOUND	HOURS:	5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday
	LIMITS:	Jct. Rte 880/237 (MP 9.3) to east of Mathilda Ave (MP 3.2) Length = 6.1 miles
	DATES:	Oct 31, 1984 Opened; Rte 880 to Lawrence Expwy; right side HOVL Nov/Dec 1991 Extended; Lawrence Expwy to east of Mathilda Ave; right side HOVL May 1, 1995 Rte 237 upgraded to fwy; HOVL relocated to left lane; hours expanded to include the PM peak (3-7 PM) May 1, 2005 Opened direct HOV connectors SB 880/WB 237
EASTBOUND	HOURS:	5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday
	LIMITS:	Mathilda Ave (MP 2.8) to Jct Rte 880/237 (MP 9.3) Length = 6.5 miles
	DATES:	Oct 31, 1984 Opened; Lawrence Expwy to Rte 880; right side HOVL Nov/Dec 1991 Extended; Mathilda Ave to Rte 880 May 1, 1995 Rte 237 upgraded to fwy; HOVL relocated to left lane; hours expanded to include the AM peak (5-9 AM) Oct 2, 1996 Shortened; Mathilda Ave to 1.1 miles west of Rte 880 Apr. 29, 2005 Opened; Route 880/237 HOVL Direct Connector

SCL-280: Magdalena Ave to Leland Ave

OCCUPANCY	Two or more persons per vehicle, motorcycles, inherently low-emission vehicles (ILEVs) with DMV issued decal.	
SOUTHBOUND	HOURS:	5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday
	LIMITS:	Magdalena Ave on-ramp (MP 14.0) to north of Meridian Ave (MP R4.2) Length = 10.5 miles
	DATES:	Dec 1, 1990 Opened; Magdalena Ave to north of Meridian Ave
NORTHBOUND	HOURS:	5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday
	LIMITS:	South of Leland Ave (MP L4.7) to Magdalena Ave off-ramp (MP 14.0) Length = 10.8 miles
	DATES:	Nov 21, 1990 Opened; south of Leland Ave to Magdalena Ave

SCL-680: ALA/SCL County Line to Route 237 Calaveras Blvd.

OCCUPANCY	Two or more persons per vehicle, motorcycles, inherently low-emission vehicles (ILEVs) with DMV issued decal.		
SOUTHBOUND	HOURS:	5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday	
	LIMITS:	Alameda County Line (MP 9.9) to Route 237 Calaveras Blvd. On-ramp (MP M7.6) Length = 2.3 miles	
	DATES:	Nov 26, 2002 Opened; Washington Blvd. On-ramp to Route 237 Calaveras Blvd. On-ramp Dec 5, 2002 Extended; Route 84 on-ramp to Route 237 Calaveras Blvd. On-ramp	

SCL-880: Alameda County Line to I-880/SR 237 Junction

OCCUPANCY	Two or more persons per vehicle, motorcycles, inherently low-emission vehicles (ILEVs) with DMV issued decal.		
SOUTHBOUND	HOURS:	5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday	
	LIMITS:	Alameda County Line (MP 10.5) to Jct I-880/237 (MP 8.5) Length = 2.0 miles	
	DATES:	May 1, 2005 Opened; S/O Dixon Landing to I-880/SR 237 Jct. August 11, 2007 Extended; Alameda County Line To S/O Dixon Landing Rd.	
NORTHBOUND	HOURS:	5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday	
	LIMITS:	I-880/237 Jct (MP 8.5) to Alameda County Line (MP 10.5) Length = 2.0 miles	
	DATES:	Apr 22, 2005 Opened; I-880/SR 237 Jct to S/O Dixon Landing Rd. Nov 11, 2008 Extended; S/O Dixon Landing Rd. to Alameda County Line	

SM-101: Whipple Ave to Santa Clara County Line

OCCUPANCY	Two or more persons per vehicle, motorcycles, inherently low-emission vehicles (ILEVs) with DMV issued decal.		
SOUTHBOUND	HOURS:	5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday	
	LIMITS:	Whipple Ave (MP 6.9) to Santa Clara Co. Line (MP 0.0) Length = 6.9 miles	
	DATES:	Jul 18, 1991 Opened	
NORTHBOUND	HOURS:	5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday	
	LIMITS:	Santa Clara Co. Line (MP 0.0) to Whipple Ave (MP 6.6) Length = 6.6 miles	
	DATES:	Jul 16, 1991 Opened	

SOL-80: East of Airbase Parkway to Red Top Road

OCCUPANCY	Two or more persons per vehicle, motorcycles, 2-seat vehicles with 2 persons, inherently low-emission vehicles (ILEVs) with DMV issued decals.	
WESTBOUND	HOURS:	5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday
	LIMITS:	East of Airbase Parkway(MP19.93) to East of Red Top Road(MP11.85) Length = 8.1 mile
	DATE:	Oct 1, 2009 Opened
EASTBOUND	HOURS:	5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday
	LIMITS:	Red Top Road On Ramp(MP11.5) to East of Airbase Parkway(MP19.7) Length = 8.2 mile
	DATE:	Nov 4, 2009 Opened

SOL-80: Route 29 to Contra Costa County Line

OCCUPANCY	Three or more persons per vehicle, motorcycles, 2-seat vehicles with 2 persons, inherently low-emission vehicles (ILEVs) with DMV issued decals.	
WESTBOUND	HOURS:	5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday
	LIMITS:	Route 29 (MP 0.9) to Contra Costa County Line (MP 0.0) Length = 0.9 mile
	DATES:	Nov 17, 2007 Extended; Route 29 to Contra Costa County Line

SOL-80: Carquinez Bridge Toll Plaza

OCCUPANCY	Three or more persons per vehicle, motorcycles, 2-seat vehicles with 2 persons, inherently low-emission vehicles (ILEVs) with DMV issued decals.		
EASTBOUND	HOURS:	5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday	
	LIMITS:	0.1 miles West of Toll Plaza (MP 0.5) to east of Toll Plaza (MP 0.6) Length = 0.1 mile	
	DATES:	Jul 1, 1991	Reduced 10c toll tickets for HOVs (with purchase of 50-ticket book)
		Oct 1, 1995	Toll-free passage in designated booth only; Two-seat vehicles with two occupants permitted
		Jul 30, 1997	Opened; West of Toll Plaza to east of Toll Plaza
	Aug 11, 2007	HOV Lane moved from toll booth #6 to toll booth #1	
	Oct 29, 2007	HOV allowed in Booth # 11	
	Jul 1, 2010	HOVs charged \$2.50 toll and required to use designated toll booths.	

SON-101: Windsor River Road to Wilfred Avenue

OCCUPANCY	Two or more persons per vehicle, motorcycles, inherently low-emission vehicles (ILEVs) with DMV issued decal.	
SOUTHBOUND	HOURS:	7:00 - 9:00 AM, 3:00 - 6:30 PM, Monday thru Friday
	LIMITS:	Windsor River Road On-Ramp (MP 29.3) to Wilfred Avenue (MP15.5) Length = 13.8 miles
	DATES:	Nov 4, 2002 Opened. Dec 11, 2003 Hours of Operation changed to 7-9 AM, 3-6:30 PM, MON - FRI Nov 10, 2008 Extended; Steele Lane to Route 12 Dec 7, 2009 Extended; Windsor River Rd to Steele Lane
NORTHBOUND	HOURS:	7:00 - 9:00 AM, 3:00 - 6:30 PM, Monday thru Friday
	LIMITS:	Wilfred Avenue(MP 15.4) to South of Windsor River Road (MP29.0) Length = 13.6 miles
	DATES:	Nov 4, 2002 Opened. Dec 11, 2003 Hours of Operation changed to 7-9 AM, 3-6:30 PM, MON - FRI Nov 10, 2008 Extended; Route 12 to Steele Lane Dec 6, 2009 Extended; Steele Lane to Windsor River Rd

TOLL BRIDGE HOV BYPASS LANES

Antioch Bridges

OCCUPANCY	Three or more persons per vehicle, motorcycles, two-seat vehicles with two occupants, inherently low-emission vehicles (ILEVs) with DMV issued decals.	
HOURS	5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday	
HOV TOLL BOOTH	Antioch	#3
DATES	Jul 1, 1991	Reduced 10¢ toll tickets for HOVs (with purchase of 50-ticket book)
	Oct 1, 1995	Toll-free passage in designated booth only; Two-seat vehicles with two occupants permitted
	Jul 1, 2010	HOVs charged \$2.50 toll and required to use designated toll booth

Benicia-Martinez Bridge

OCCUPANCY	Three or more persons per vehicle, motorcycles, two-seat vehicles with two occupants, inherently low-emission vehicles (ILEVs) with DMV issued decals.	
HOURS	5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday	
HOV TOLL BOOTH/LANE	Benicia Br.	Left side bypass lane and Toll Booth #3
DATES	See information in Mainline HOV Lane Section	

Richmond-San Rafael Bridge

OCCUPANCY	Three or more persons per vehicle, motorcycles, two-seat vehicles with two occupants, inherently low-emission vehicles (ILEVs) with DMV issued decals.	
HOURS	5:00 - 10:00 AM, 3:00 - 6:00 PM, Monday thru Friday	
HOV TOLL BOOTH	#1	
DATES	Oct. 23, 1989	Toll-free passage in designated booth only;
	Oct 1, 1995	Two-seat vehicles with two occupants permitted
	Oct 16, 2007	HOV allowed moved from booth #4 to booth #3
	Oct 29, 2007	HOV allowed in Booth #6
	Jul 1, 2010	HOVs charged \$2.50 toll and required to use designated toll booth

TOLL BRIDGE HOV BYPASS LANES

Dumbarton Bridge

OCCUPANCY	Two or more persons per vehicle, motorcycles, inherently low-emission vehicles (ILEVs) with DMV issued decal.
HOURS	5:00 - 10:00 AM, 3:00 - 6:00 PM, Monday thru Friday
HOV TOLL LANE	Left side bypass lane
DATES	See information in Mainline HOV Lane section

San Mateo-Hayward Bridge

OCCUPANCY	Two or more persons per vehicle, motorcycles, inherently low-emission vehicles (ILEVs) with DMV issued decal.
HOURS	5:00 - 10:00 AM, 3:00 - 6:00 PM, Monday thru Friday
HOV TOLL BOOTHS	#1 and #2
DATES	See information in Mainline HOV Lane section

San Francisco-Oakland Bay Bridge

OCCUPANCY	Three or more persons per vehicle, motorcycles, two-seat vehicles with two occupants, inherently low-emissions vehicles (ILEVs) with DMV issued decal.
HOURS	5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday
HOV TOLL BOOTHS/LANES	#1, #2 and two right side bypass lanes
DATES	See information in Ala-80 Mainline HOV Lane section

TOLL BRIDGE HOV BYPASS LANES

Carquinez Bridge

OCCUPANCY	Three or more persons per vehicle, motorcycles, two-seat vehicles with two occupants, inherently low-emissions vehicles (ILEVs) with DMV issued decal.
HOURS	5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday
HOV TOLL BOOTHS	#1, #6
DATES	See information in Sol-80 Mainline HOV lane section

MAINLINE HOV LANES

VOLUME/PERSON DATA and VIOLATION HISTORY

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ALAMEDA-80

San Francisco-Oakland Bay Bridge Toll Plaza

Westbound - A.M.

Typical data for 2010

(6)

VEHICLES	PEAK PERIOD ⁽⁵⁾ 6:00 - 10:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lanes	Mixed Flow Lanes	HOV Lanes	Mixed Flow Lanes
Motorcycles	588	—	155	—
Buses ⁽⁴⁾	285	—	97	—
Carpools ⁽¹⁾	5936	—	2273	—
2 - seaters ⁽²⁾	1678	—	593	—
Hybrid	962	---	305	---
Vanpools	107	—	26	—
Violators	1448	—	492	—
TOTAL	11004	24011 ⁽⁷⁾	3941	5464

PERSONS	PEAK PERIOD ⁽⁵⁾ 6:00 - 10:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lanes	Mixed Flow Lanes	HOV Lanes	Mixed Flow Lanes
Motorcycles	588	—	155	—
Buses ⁽⁴⁾	9975	—	3395	—
Carpools ⁽¹⁾	18402	—	7046	—
2 - seaters ⁽²⁾	3356	—	1186	—
Hybrid	962	---	305	---
Vanpools	1070	—	260	—
Violators	2279	—	801	—
TOTAL	36632	27613 ⁽⁷⁾	13148	6284

RATES	PEAK PERIOD ⁽⁵⁾ 6:00 - 10:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lanes	Mixed Flow Lanes	HOV Lanes	Mixed Flow Lanes
HOV Lane Occupancy Rate	3.3 persons/veh	—	3.3 persons/veh	—
Mixed Flow Occupancy Rate ⁽⁷⁾	1.2 persons/veh	—	1.2 persons/veh	—
Violation rate (HOV Lane) ⁽³⁾	13.2 %	—	12.5 %	—

NOTES: (1) 3 or more persons per vehicle.

(2) 2 - seater vehicles with 2 persons.

(3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$

(4) Assumed AM bus occupancy = 35 persons/vehicle.

(5) HOV lanes in operation from 5:00 to 10:00 AM.

(6) Observations conducted 5/13/10 at the SFOBB Toll Plaza.

(7) Data from Toll Plaza Vehicle Registration Report.

ALAMEDA-80

San Francisco-Oakland Bay Bridge Toll Plaza

Westbound - P.M.

Typical data for 2010⁽⁶⁾

VEHICLES	PEAK PERIOD ⁽⁵⁾ 3:00 - 7:00 PM		PEAK HOUR 5:00 - 6:00 P.M.	
	HOV Lanes	Mixed Flow Lanes	HOV Lanes	Mixed Flow Lanes
Motorcycles	218	—	69	—
Buses ⁽⁴⁾	321	—	91	—
Carpools ⁽¹⁾	1539	—	401	—
2 - seaters ⁽²⁾	443	—	140	—
Hybrid	402	---	123	---
Vanpools	60	—	11	—
Violators	455	—	106	—
TOTAL	3438	24381⁽⁷⁾	941	6630
PERSONS	HOV Lanes	Mixed Flow Lanes	HOV Lanes	Mixed Flow Lanes
	HOV Lanes	Mixed Flow Lanes	HOV Lanes	Mixed Flow Lanes
Motorcycles	218	—	69	—
Buses ⁽⁴⁾	5136	—	1456	—
Carpools ⁽¹⁾	4771	—	1243	—
2 - seaters ⁽²⁾	886	—	280	—
Hybrid	402	---	123	---
Vanpools	480	—	88	—
Violators	760	—	181	—
TOTAL	12653	29257⁽⁷⁾	3440	7956
RATES				
HOV Lane Occupancy Rate	3.7 persons/veh		3.7 persons/veh	
Mixed Flow Occupancy Rate ⁽⁷⁾	1.2 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	13.2 %		11.3 %	

NOTES: (1) 3 or more persons per vehicle.

(2) 2 - seater vehicles with 2 persons.

(3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$

(4) Assumed PM bus occupancy = 16 persons/vehicle.

(5) HOV lanes in operation from 3:00 to 7:00 P.M.

(6) Observations conducted 5/13/10 at the SFOBB Toll Plaza.

(7) Data from Toll Plaza Hourly Vehicle Registration Report.

ALAMEDA-80

San Francisco-Oakland Bay Bridge

Violation History

Westbound

	DATE	TOTAL HOVL VOLUME	VIOLATION RATE	By Lane		By Time				
				Lanes 1 & 2	Lanes 21&22	5 - 6 AM	6 - 7 AM	7 - 8 AM	8 - 9 AM	9 - 10 AM
A.M.	Thu May 13, 2010	11004	13.2%	10.9%	15.5%	---	20.5%	12.5%	10.1%	9.8%
PEAK	Tue Dec 1, 2009	10677	11.7%	8.7%	14.8%	---	12.0%	12.8%	9.9%	12.0%
	Wed May 28, 2008	10851	9.0%	6.7%	11.3%	---	13.8%	7.8%	6.0%	7.9%
	Tue May 22, 2007	11427	6.5%	8.0%	4.9%	---	10.0%	6.9%	4.0%	5.2%
	Wed May 31, 2006	10394	9.7%	10.3%	9.1%	---	18.4%	6.8%	6.0%	5.9%
	Tue Nov 15, 2005	10261	9.9%	8.7%	11.2%	---	13.3%	8.1%	5.8%	16.1%
	Wed Nov 3, 2004	10917	10.0%	8.2%	11.7%	21.4%	12.5%	7.9%	6.3%	9.0%
	Wed May 28, 2003	10803	8.2%	7.4%	9.0%	15.5%	8.4%	7.0%	6.1%	9.6%
	Thu May 9, 2002	11481	9.5%	4.9%	13.8%	22.4%	12.0%	7.5%	3.8%	10.5%
	Wed May 23, 2001	13100	10.0%	7.2%	12.8%	22.3%	12.2%	5.8%	6.9%	10.4%
	Thu Nov 9, 2000	12991	14.7%	8.9%	19.9%	37.8%	16.9%	10.4%	6.4%	14.3%
	Thu Oct 14, 1999	11644	19.5%	9.8%	29.7%	60.1%	32.6%	7.7%	6.9%	11.5%
	Tue Apr 21, 1998	9696	10.6%	7.6%	12.5%	14.2%	22.7%	6.4%	4.1%	9.2%
						3 - 4 PM	4 - 5 PM	5 - 6 PM	6 - 7 PM	
P.M.	Thu May 13, 2010	3438	13.2%	14.7%	11.8%		18.6%	13.0%	11.3%	10.6%
PEAK	Tue Sep 29, 2009	3336	10.8%	17.0%	4.1%		13.9%	8.9%	10.4%	10.3%
	Thu May 1, 2008	3330	9.9%	7.8%	12.4%		11.8%	9.4%	9.6%	8.9%
	Wed May 23, 2007	3541	7.8%	5.9%	10.4%		9.4%	7.0%	7.3%	7.9%
	Thu Oct 19, 2006	3645	14.9%	11.0%	19.0%		15.2%	14.8%	14.3%	15.5%
	Tue Oct 25, 2005	3106	16.3%	18.5%	13.5%		20.2%	13.5%	13.9%	18.5%
	Thu Oct 28, 2004	3290	9.1%	10.6%	7.0%		10.9%	7.9%	8.1%	9.6%
	Tue May 27, 2003	3891	14.7%	17.2%	11.8%		24.4%	11.7%	9.3%	15.7%
	Wed Sep 18, 2002	3327	11.7%	12.7%	15.0%		16.5%	11.6%	10.9%	15.8%
	Wed Oct 3, 2001	3602	9.8%	10.6%	8.8%		12.6%	7.6%	9.3%	0.101
	Thu Oct 19, 2000	3673	25.6%	17.0%	33.3%		32.0%	24.4%	21.1%	25.3%

NOTES: (a) Two-seater vehicles with 2 persons allowed in HOVL effective October 1, 1995.
 (b) Hours of operation were extended from 3-6 PM to 3-7 PM on February 2, 1998.
 (c) Hours of operation from 5:00 to 10:00 AM and 3:00 to 7:00 PM.

ALAMEDA-80

HOV FLYOVER RAMP

Powell Street to SFOBB

Westbound - P.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 7:00 PM		PEAK HOUR 6:00 - 7:00 PM	
	HOV Lane	SOV Lane	HOV Lane	SOV Lane
Motorcycles	76	—	24	—
Buses	148	—	25	—
Carpool ⁽¹⁾	749	—	212	—
2 - seaters ⁽²⁾	213	—	68	—
Hybrid	122	—	32	—
Vanpools	17	—	3	—
Violators	320	—	90	—
TOTAL	1645	N/A	454	N/A
PERSONS	HOV Lane		HOV Lane	
	HOV Lane	SOV Lane	HOV Lane	SOV Lane
Motorcycles	76	—	24	—
Buses	2368	—	400	—
Carpool ⁽¹⁾	2322	—	657	—
2 - seaters ⁽²⁾	426	—	136	—
Hybrid	122	—	32	—
Vanpools	136	—	24	—
Violators	279	—	59	—
TOTAL	5729	N/A	1332	N/A
RATES	HOV Lane		HOV Lane	
	HOV Lane	SOV Lane	HOV Lane	SOV Lane
HOV Lane occupancy rate	3.5 persons/veh		2.9 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	19.5 %		19.8 %	

NOTES: (1) 3 or more persons per vehicle.

(2) 2 - seater vehicles with 2 persons.

(3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$

(4) HOV lane in operation from 3:00 to 7:00 PM.

(5) Observations conducted 5/13/10 at the downstream touchdown of the flyover.

ALAMEDA-80

HOV FLYOVER RAMP

Powell Street to SFOBB

Violation History

Westbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Year 2010	-	-	-
	Tue Jun 9, 2009	6:00 - 10:00 AM	4588	13.7%
	Thu Oct 9, 2008	6:00 - 10:00 AM	4461	7.2%
	Thu May 24, 2007	6:00 - 10:00 AM	4328	11.3%
	Thu Jun 8, 2006	5:00 - 10:00 AM	5462	16.3%
	Thu Jun 2, 2005	6:00 - 10:00 AM	4848	13.3%
	Tue Dec 14, 2004	6:00 - 10:00 AM	2937	16.3%
	Wed Nov 5, 2003	6:00 - 10:00 AM	4286	13.9%
	Wed May 29, 2002	6:00 - 10:00 AM	4644	2.9%
	Wed Mar 28, 2001	5:00 - 10:00 AM	5108	18.6%
	Wed May 17, 2000	5:00 - 10:00 AM	5274	16.5%
P.M. PEAK	Thu May 13, 2010	3:00 - 7:00 PM	1645	19.5%
	Wed Sep 30, 2009	3:00 - 7:00 PM	1589	11.5%
	Wed Oct 8, 2008	3:00 - 7:00 PM	1367	13.6%
	Thu Sep 27, 2007	3:00 - 7:00 PM	1490	10.9%
	Wed Oct 25, 2006	3:00 - 7:00 PM	1227	16.2%
	Wed May 18, 2005	3:00 - 7:00 PM	1209	20.6%
	Wed Nov 3, 2004	3:00 - 6:00 PM	953	17.5%
	Tue Nov 4, 2003	3:00 - 6:00 PM	839	26.8%
	Tue Sep 17, 2002	3:00 - 7:00 PM	1123	20.4%
	Wed Oct 3, 2001	3:00 - 7:00 PM	1045	26.1%
	Tue Dec 12, 2000	3:00 - 5:00 PM	490	16.1%

NOTES: (a) Morning period of operation from 5:00 to 10:00 AM
(b) Evening period of operation from 3:00 to 7:00 PM.

ALAMEDA-80

Contra Costa County Line to Powell Street

Westbound - A.M.

Typical data for 2010 ⁽⁵⁾

PEAK PERIOD ⁽⁴⁾

6:00 - 10:00 AM

PEAK HOUR

7:00 - 8:00 AM

VEHICLES

	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	134	29	34	11
Buses	85	13	24	3
Carpools ⁽¹⁾	4341	591	1438	232
Hybrid	586	95	149	20
Vanpools	68	29	10	14
Single Occ. ⁽²⁾	—	24422	—	6226
Violators	478	—	125	—
TOTAL	5692	25179	1780	6506

PERSONS

	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	134	29	34	11
Buses	2975	455	840	105
Carpools ⁽¹⁾	12274	1570	4108	632
Hybrid	586	95	149	20
Vanpools	680	290	100	140
Single Occ. ⁽²⁾	—	26642	—	6847
Violators	622	—	184	—
TOTAL	17271	29081	5415	7755

RATES

HOV Lane occupancy rate	3.0 persons/veh	3.0 persons/veh
Mixed Flow occupancy rate	1.2 persons/veh	1.2 persons/veh
Overall occupancy (incl. buses)	1.5 persons/veh	1.6 persons/veh
Violation rate ⁽³⁾ (HOV Lane)	8.4 %	7.0 %

NOTES: (1) 3 or more persons per vehicle & 2 - seater vehicles with 2 persons.

(2) Mixed flow lanes only.

(3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$

(4) HOV lane in operation from 5:00 to 10:00 A.M.

(5) Observations conducted 5/18/10 at Ashby Avenue Interchange.

ALAMEDA-80

I-880 Viaduct to Contra Costa County Line

Eastbound - P.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 7:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	232	38	77	3
Buses	74	11	29	0
Carpools ⁽¹⁾	3577	664	1092	148
Hybrid	488	151	171	43
Vanpools	94	25	23	10
1 and 2 Occ. ⁽²⁾	—	25011	—	6569
Violators	725	—	174	—
TOTAL	5190	25900	1566	6773

PERSONS	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	232	38	77	3
Buses	2590	385	1015	0
Carpools ⁽¹⁾	9240	1790	2788	399
Hybrid	488	151	171	43
Vanpools	940	250	230	100
1 and 2 Occ. ⁽²⁾	—	27987	—	7300
Violators	1233	—	314	—
TOTAL	14723	30601	4595	7845

RATES	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.8 persons/veh		2.9 persons/veh	
Mixed Flow occupancy rate	1.2 persons/veh		1.2 persons/veh	
Overall occupancy (incl. buses)	1.5 persons/veh		1.5 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	14.0 %		11.1 %	

NOTES: (1) 3 or more persons per vehicle & 2 - seater vehicles with 2 persons.

(2) Mixed flow lanes only.

(3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$

(4) HOV lane in operation from 3:00 to 7:00 P.M.

(5) Observations conducted 5/11/10 at Ashby Avenue Interchange.

ALAMEDA-80

Contra Costa County Line to Powell Street

Violation History

Westbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Tue May 18, 2010	6:00 - 10:00 AM	5692	8.4%
	Wed May 27, 2009	6:00 - 10:00 AM	5699	6.3%
	Tue Jun 3, 2008	6:00 - 10:00 AM	5351	8.4%
	Wed May 16, 2007	6:00 - 10:00 AM	5709	11.1%
	Thu May 25, 2006	6:00 - 10:00 AM	5114	9.2%
	Wed Nov 16, 2005	7:00 - 10:00 AM	3907	9.0%
	Wed Nov 17, 2004	7:00 - 10:00 AM	3734	7.9%
	Tue Jun 10, 2003	6:00 - 10:00 AM	5181	4.4%
	Wed May 8, 2002	6:00 - 10:00 AM	5414	8.7%
	Wed May 16, 2001	6:00 - 10:00 AM	5289	13.8%
	Thu Oct 5, 2000	7:00 - 10:00 AM	3184	18.5%
P.M. PEAK	Year 2010	-	-	-
	Year 2009	-	-	-
	Year 2008	-	-	-
	Year 2007	-	-	-
	Year 2006	-	-	-
	Year 2005	-	-	-
	Year 2004	-	-	-
	Year 2003	-	-	-
	Thu May 9, 2002	3:00 - 7:00 PM	3102	18.9%
	Thu May 10, 2001	3:00 - 7:00 PM	1936	24.4%
	Thu Jun 1, 2000	3:00 - 7:00 PM	2593	25.9%

NOTES: (a) Morning period of operation from 5:00 to 10:00 AM
(b) Evening period of operation from 3:00 to 7:00 PM.
(c) Data was not collected in 2010 for off-peak directions.

ALAMEDA-80

I-880 Viaduct to Contra Costa County Line

Violation History

Eastbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Year 2010	-	-	-
	Year 2009	-	-	-
	Year 2008	-	-	-
	Year 2007	-	-	-
	Year 2006	-	-	-
	Year 2005	-	-	-
	Year 2004	-	-	-
	Year 2003	-	-	-
	Wed Jun 5, 2002	6:00 - 10:00 PM	677	17.6%
	Wed May 30, 2001	6:00 - 10:00 PM	606	21.5%
	Tue Dec 19, 2000	7:00 - 10:00 PM	221	7.7%
P.M. PEAK	Tue May 11, 2010	3:00 - 7:00 PM	5190	14.0%
	Tue Oct 6, 2009	3:00 - 7:00 PM	3967	4.2%
	Wed Oct 22, 2008	3:00 - 7:00 PM	4809	8.8%
	Wed May 16, 2007	3:00 - 7:00 PM	4709	7.9%
	Wed May 10, 2006	3:00 - 7:00 PM	5415	10.3%
	Tue May 17, 2005	3:00 - 7:00 PM	5048	14.7%
	Wed Nov 17, 2004	3:00 - 5:00 PM	1995	21.5%
	Thu May 29, 2003	3:00 - 7:00 PM	4225	9.3%
	Thu May 16, 2002	3:00 - 7:00 PM	4535	2.7%
	Thu Sep 27, 2001	3:00 - 7:00 PM	4655	6.5%
	Thu Sep 14, 2000	3:00 - 7:00 PM	4415	3.4%

NOTES: (a) Morning period of operation from 5:00 to 10:00 AM
(b) Evening period of operation from 3:00 to 7:00 PM
(c) Data was not collected in 2010 for off-peak direction

ALAMEDA-84

Route I-880 to Dumbarton Bridge Toll Plaza

Westbound - A.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	54	4	16	2
Buses	28	4	10	4
Carpools ⁽¹⁾	2490	58	823	10
Vanpools	8	23	4	5
Hybrid/Single Occ. ⁽²⁾	200	8690	91	3589
Violators	10	—	0	—
TOTAL	2790	8779	944	3610
PERSONS	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	54	4	16	2
Buses	980	140	350	140
Carpools ⁽¹⁾	5463	118	1854	21
Vanpools	80	230	40	50
Hybrid/Single Occ. ⁽²⁾	200	8690	91	3589
Violators	10	—	0	—
TOTAL	6787	9182	2351	3802
RATES	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.4 persons/veh		2.5 persons/veh	
Mixed Flow occupancy rate	1.0 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.4 persons/veh		1.4 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	0.4 %		0.0 %	

NOTES: (1) Two or more persons per vehicle.

(2) Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only.

(3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$

(4) HOV lane in operation from 5:00 to 10:00 A.M.

(5) Observations conducted 03/24/10 at E/O Dumbarton Bridge Toll Plaza.

ALAMEDA-84

Route I-880 to Dumbarton Bridge Toll Plaza

Westbound - P.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	7	6	3	1
Buses	18	1	4	1
Carpools ⁽¹⁾	826	140	263	41
Vanpools	14	1	3	1
Hybrid/Single Occ. ⁽²⁾	16	2681	10	935
Violators	7	—	7	—
TOTAL	888	2829	290	979
PERSONS	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	7	6	3	1
Buses	630	35	140	35
Carpools ⁽¹⁾	1769	287	569	86
Vanpools	140	10	30	10
Hybrid/Single Occ. ⁽²⁾	16	2681	10	935
Violators	7	—	7	—
TOTAL	2569	3019	759	1067
RATES	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.9 persons/veh		2.6 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.5 persons/veh		1.4 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	0.8 %		2.4 %	

NOTES: (1) Two or more persons per vehicle.

(2) Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only.

(3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$

(4) HOV lane in operation from 3:00 to 6:00 P.M.

(5) Observations conducted 03/24/10 at East of Dumbarton Bridge Toll Plaza.

ALAMEDA-84

I-880 to Dumbarton Bridge Toll Plaza

Violation History

Westbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Wed Mar 24, 2010	6:00 - 9:00 AM	2790	0.4%
	Thu Apr 30, 2009	6:00 - 9:00 AM	2741	0.0%
	Thu Oct 23, 2008	6:00 - 9:00 AM	3465	0.0%
	Wed Nov 7, 2007	6:00 - 9:00 AM	3114	0.8%
	Wed Sep 27, 2006	6:00 - 9:00 AM	3045	0.6%
	Thu Oct 20, 2005	6:00 - 9:00 AM	2769	1.4%
	Thu Oct 14, 2004	6:00 - 9:00 AM	2495	0.6%
	Thu Jun 5, 2003	6:00 - 9:00 AM	2496	0.9%
	Tue May 14, 2002	6:00 - 9:00 AM	3044	3.5%
	Tue Apr 10, 2001	6:00 - 10:00 AM	4480	3.1%
	Thu Oct 19, 2000	6:00 - 9:00 AM	4106	3.5%
P.M. PEAK	Wed Mar 24, 2010	3:00 - 6:00 PM	888	0.8%
	Thu Apr 30, 2009	3:00 - 6:00 PM	1052	0.5%
	Thu May 1, 2008	3:00 - 6:00 PM	1045	1.1%
	Wed Apr 4, 2007	3:00 - 6:00 PM	1148	3.7%
	Tue Sep 26, 2006	3:00 - 6:00 PM	1035	1.0%
	Tue May 10, 2005	3:00 - 6:00 PM	1032	1.1%
	Year 2004	-	-	-
	Thu May 8, 2003	3:00 - 6:00 PM	995	1.1%
	Wed Jun 12, 2002	3:00 - 6:00 PM	959	1.8%
	Tue Mar 20, 2001	3:00 - 6:00 PM	919	2.2%
	Thu Oct 19, 2000	3:00 - 6:00 PM	849	3.1%

NOTES: (a) Morning period of operation from 5:00 to 10:00 AM.
(b) Evening period of operation from 3:00 to 6:00 PM.
(c) Data was not collected in 2004 for off-peak direction

ALAMEDA-92

Hesperian Boulevard to San Mateo Bridge Toll Plaza

Westbound - A.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	70	14	27	6
Buses	12	1	6	1
Carpools ⁽¹⁾	2031	117	958	37
Vanpools	19	3	13	0
Hybrid/Single Occ. ⁽²⁾	95	9974	45	3582
Violators	7	—	7	—
TOTAL	2234	10109	1056	3626
PERSONS	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	70	14	27	6
Buses	420	35	210	35
Carpools ⁽¹⁾	4244	242	2010	78
Vanpools	190	30	130	0
Hybrid/Single Occ. ⁽²⁾	95	9974	45	3582
Violators	7	—	7	—
TOTAL	5026	10295	2429	3701
RATES	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.2 persons/veh		2.3 persons/veh	
Mixed Flow occupancy rate	1.0 persons/veh		1.0 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	0.3 %		0.7 %	

NOTES: (1) Two or more persons per vehicle.

(2) Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only.

(3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$

(4) HOV lane in operation from 5:00 to 10:00 A.M.

(5) Observations conducted 03/23/10 at E/O San Mateo Bridge Toll Plaza

ALAMEDA-92

Hesperian Boulevard to San Mateo Bridge Toll Plaza

Westbound - P.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	3	1	1	1
Buses	10	2	3	0
Carpools ⁽¹⁾	1069	421	395	150
Vanpools	8	20	5	1
Hybrid/Single Occ. ⁽²⁾	35	5365	14	2038
Violators	10	—	4	—
TOTAL	1135	5809	422	2190
PERSONS	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	3	1	1	1
Buses	350	70	105	0
Carpools ⁽¹⁾	2218	876	815	318
Vanpools	80	200	50	10
Hybrid/Single Occ. ⁽²⁾	35	5365	14	2038
Violators	10	—	4	—
TOTAL	2696	6512	989	2367
RATES	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.4 persons/veh		2.3 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.3 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	0.9 %		0.9 %	

NOTES: (1) Two or more persons per vehicle.

(2) Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only.

(3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$

(4) HOV lane in operation from 3:00 to 6:00 P.M.

(5) Observations conducted 04/27/10 at E/O San Mateo Bridge Toll Plaza.

ALAMEDA-92

Hesperian Blvd. to West of San Mateo - Hayward Bridge Toll Plaza

Violation History

Westbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Tue Apr 27, 2010	6:00 - 9:00 AM	2234	0.3%
	Wed May 6, 2009	6:00 - 9:00 AM	2524	1.0%
	Thu Nov 20, 2008	6:00 - 9:00 AM	2799	0.0%
	Thu Mar 15, 2007	6:00 - 9:00 AM	2747	1.6%
	Wed Mar 8, 2006	6:00 - 9:00 AM	2452	1.3%
	Tue May 24, 2005	6:00 - 9:00 AM	2448	1.1%
	Wed Oct 13, 2004	6:00 - 9:00 AM	2218	2.3%
	Thu May 29, 2003	6:00 - 9:00 AM	2449	1.3%
	Tue Apr 30, 2002	6:00 - 9:00 AM	1834	3.9%
	Thu Sep 20, 2001	6:00 - 9:00 AM	2075	8.1%
	Tue Oct 24, 2000	6:00 - 9:00 AM	2480	8.2%
P.M. PEAK	Tue Apr 27, 2010	3:00 - 6:00 PM	1135	0.9%
	Tue Apr 21, 2009	3:00 - 6:00 PM	1384	1.5%
	Thu May 15, 2008	3:00 - 6:00 PM	1479	1.0%
	Thu Mar 15, 2007	3:00 - 6:00 PM	1602	0.7%
	Thu Sep 21, 2006	3:00 - 6:00 PM	1518	2.0%
	Tue Sep 13, 2005	3:00 - 6:00 PM	1318	0.5%
	Year 2004	-	-	-
	Wed Apr 9, 2003	3:00 - 6:00 PM	1240	1.5%
	Tue Jun 11, 2002	3:00 - 6:00 PM	1275	4.4%
	Wed Oct 3, 2001	3:00 - 6:00 PM	1177	5.4%
	Thu Apr 13, 2000	3:00 - 6:00 PM	1243	1.4%

NOTES: (a) Morning period of operation from 5:00 to 10:00 AM.
(b) Evening period of operation from 3:00 to 6:00 PM.
(c) Data was not collected in 2004 for off-peak direction

ALAMEDA-580

Hacienda Dr. to Livermore Ave

Eastbound - P.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 3:00 - 4:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	78	23	29	5
Buses	8	11	5	5
Carpools ⁽¹⁾	1875	571	762	267
Vanpools	24	40	13	21
Hybrid/Single Occ. ⁽²⁾	33	10985	21	4345
Violators	25	—	10	—
TOTAL	2043	11630	830	4643
PERSONS	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	78	23	29	5
Buses	280	385	175	175
Carpools ⁽¹⁾	3841	1248	1570	586
Vanpools	240	400	130	210
Hybrid/Single Occ. ⁽²⁾	33	10985	21	4345
Violators	25	—	10	—
TOTAL	4497	13041	1935	5321
RATES				
HOV Lane occupancy rate	2.2	persons/veh	2.3	persons/veh
Mixed Flow occupancy rate	1.1	persons/veh	1.1	persons/veh
Overall occupancy (incl. buses)	1.3	%	1.3	%
Violation rate ⁽³⁾ (HOV Lane)	1.2	%	1.2	%

NOTES: (1) Two or more persons per vehicle.

(2) Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only.

(3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$

(4) HOV lane in operation from 5:00 to 10:00 A.M.

(5) Observations conducted 11/17/10 at Airway Blvd I/C.

ALAMEDA-580

Hacienda Dr. to Livermore Ave.

Violation History

Eastbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Year 2010	-	-	-
P.M. PEAK	Wed Nov 17, 2010	3:00 - 7:00 PM	2043	1.2%

NOTES: (a) Morning period of operation from 5:00 to 10:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.
(c) Data was not collected in 2010 for off-peak direction

ALAMEDA-580

Livermore Ave to W/O Greenville

Eastbound - A.M.

Typical data for 2010⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	4	11	2	5
Buses	7	29	1	11
Carpools ⁽¹⁾	827	348	303	126
Vanpools	31	7	13	1
Hybrid/Single Occ. ⁽²⁾	54	4973	29	1750
Violators	32	—	7	—
TOTAL	955	5368	355	1893

PERSONS	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	4	11	2	5
Buses	245	1015	35	385
Carpools ⁽¹⁾	1718	727	621	260
Vanpools	310	70	130	10
Hybrid/Single Occ. ⁽²⁾	54	4973	29	1750
Violators	32	—	7	—
TOTAL	2363	6796	824	2410

RATES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.5 persons/veh		2.3 persons/veh	
Mixed Flow occupancy rate	1.3 persons/veh		1.3 persons/veh	
Overall occupancy (incl. buses)	1.4 persons/veh		1.4 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	3.4 %		2.0 %	

- NOTES:** (1) Two or more persons per vehicle.
 (2) Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$
 (4) HOV lane in operation from 6:00 to 9:00 A.M.
 (5) Observations conducted 05/27/10 at Vasco Rd. I/C

ALAMEDA-580

Livermore Ave to W/O Greenville

Eastbound - P.M.

Typical data for 2010⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 4:00 - 5:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	21	25	10	6
Buses	4	5	2	1
Carpools ⁽¹⁾	1556	584	566	222
Vanpools	33	13	12	5
Hybrid/Single Occ. ⁽²⁾	1	12380	1	4203
Violators	50	—	12	—
TOTAL	1665	13007	603	4437
PERSONS	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	21	25	10	6
Buses	140	175	70	35
Carpools ⁽¹⁾	3179	1001	1155	453
Vanpools	330	130	120	50
Hybrid/Single Occ. ⁽²⁾	1	12380	1	4203
Violators	50	—	12	—
TOTAL	3721	13711	1368	4747
RATES	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.2 persons/veh		2.3 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	3.0 %		2.0 %	

NOTES: (1) Two or more persons per vehicle.

(2) Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only.

(3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$

(4) HOV lane in operation from 6:00 to 9:00 A.M.

(5) Observations conducted 03/09/10 at Vasco Rd. I/C

ALAMEDA-580

Livermore I/C to W/O Greenville Rd.

Violation History

Eastbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Thu May 27, 2010	6:00 - 9:00 AM	2765	3.4%
	Thu Oct 1, 2009	6:00 - 9:00 AM	-	0.0%
P.M. PEAK	Tue Mar 9, 2010	3:00 - 7:00 PM	1665	3.0%
	Tue Oct 6, 2009	3:00 - 7:00 PM	1616	3.3%

NOTES:

- (a) Morning period of operation from 5:00 to 10:00 AM.
- (b) Evening period of operation from 3:00 to 7:00 PM.

ALAMEDA-680

Route 84 to ALA/SCL Co. Line

Southbound - A.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	70	5	34	2
Buses	2	8	1	4
Carpools ⁽¹⁾	1859	316	690	79
Vanpools	22	95	7	29
Hybrid/Single Occ. ⁽²⁾	206	15163	93	5353
Violators	13	—	10	—
TOTAL	2172	15587	835	5467

PERSONS	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	70	5	34	2
Buses	70	280	35	140
Carpools ⁽¹⁾	3871	642	1436	159
Vanpools	220	950	70	290
Hybrid/Single Occ. ⁽²⁾	206	15163	93	5353
Violators	13	—	10	—
TOTAL	4450	17040	1678	5944

RATES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.0 persons/veh		2.0 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	0.6 %		1.2 %	

NOTES: (1) Two or more persons per vehicle.

(2) Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only.

(3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$

(4) HOV lane in operation from 5:00 to 9:00 A.M.

(5) Observations conducted 04/29/10 at Vargas Road I/C.

ALAMEDA-680

Route 84 to ALA/SCL Co. Line

Southbound - P.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	21	8	8	1
Buses	0	15	0	4
Carpools ⁽¹⁾	1475	1474	531	515
Vanpools	5	19	1	7
Hybrid/Single Occ. ⁽²⁾	32	9521	18	3432
Violators	62	—	29	—
TOTAL	1595	11037	587	3959
PERSONS	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	21	8	8	1
Buses	0	525	0	140
Carpools ⁽¹⁾	3101	3147	1128	1092
Vanpools	50	190	10	70
Hybrid/Single Occ. ⁽²⁾	32	9521	18	3432
Violators	62	—	29	—
TOTAL	3266	13391	1193	4735
RATES	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.0 persons/veh		2.0 persons/veh	
Mixed Flow occupancy rate	1.2 persons/veh		1.2 persons/veh	
Overall occupancy (incl. buses)	1.3 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	3.9 %		4.9 %	

NOTES: (1) Two or more persons per vehicle.

(2) Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only.

(3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$

(4) HOV lane in operation from 3:00 to 7:00 P.M.

(5) Observations conducted 04/29/10 at Vargas Road I/C.

ALAMEDA - 680

Route 84 to ALA/SCL Co. Line

Violation History

Southbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Thu Apr 29, 2010	6:00 - 9:00 AM	2172	0.6%
	Thu Nov 12, 2009	6:00 - 9:00 AM	3143	0.3%
	Wed Oct 22, 2008	6:00 - 9:00 AM	2549	1.5%
	Wed Sep 19, 2007	6:00 - 9:00 AM	2454	3.3%
	Tue Jun 13, 2006	6:00 - 9:00 AM	2121	3.0%
	Tue Oct 4, 2005	6:00 - 9:00 AM	2133	3.6%
	Thu Dec 2, 2004	6:00 - 9:00 AM	1970	9.8%
	Thu Oct 9, 2003	6:00 - 9:00 AM	2138	0.2%
	Thu Dec 5, 2002	6:00 - 9:00 AM	1098	4.4%
P.M. PEAK	Thu Apr 29, 2010	3:00 - 6:00 PM	1595	3.9%
	Tue May 12, 2009	3:00 - 6:00 PM	980	5.7%
	Tue Dec 9, 2008	3:00 - 6:00 PM	1052	2.6%
	Tue Jun 5, 2007	3:00 - 6:00 PM	1481	3.5%
	Tue Sep 19, 2006	3:00 - 6:00 PM	1669	1.1%
	Thu Nov 3, 2005	3:00 - 6:00 PM	1752	1.0%
	Year 2004	-	-	-
	Tue Jun 3, 2003	3:00 - 6:00 PM	1149	4.4%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.
(c) Data was not collected in 2004 for off-peak direction

ALAMEDA-880

Marina Boulevard to Whipple Road

Southbound - A.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	55	5	7	0
Buses	33	18	12	1
Carpools ⁽¹⁾	2357	175	886	52
Vanpools	19	47	5	6
Hybrid/Single Occ. ⁽²⁾	312	11145	89	3803
Violators	170	—	55	—
TOTAL	2946	11390	1054	3862
PERSONS	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	55	5	7	0
Buses	1155	630	420	35
Carpools ⁽¹⁾	5993	360	2300	111
Vanpools	190	470	50	60
Hybrid/Single Occ. ⁽²⁾	312	11145	89	3803
Violators	170	—	55	—
TOTAL	7875	12610	2921	4009
RATES	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.7 persons/veh		2.8 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.0 persons/veh	
Overall occupancy (incl. buses)	1.4 persons/veh		1.4 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	5.8 %		5.2 %	

NOTES: (1) Two or more persons per vehicle.

(2) Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only.

(3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$

(4) HOV lane in operation from 5:00 to 9:00 A.M.

(5) Observations conducted 03/25/10 at Tennyson Road I/C.

ALAMEDA-880

Marina Boulevard to Whipple Road

Southbound - P.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	87	29	40	5
Buses	20	14	5	5
Carpools ⁽¹⁾	3143	848	1160	250
Vanpools	15	66	5	12
Hybrid/Single Occ. ⁽²⁾	82	13580	28	4858
Violators	95	—	59	—
TOTAL	3442	14537	1297	5130
PERSONS	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	87	29	40	5
Buses	700	490	175	175
Carpools ⁽¹⁾	6475	1776	2379	522
Vanpools	150	660	50	120
Hybrid/Single Occ. ⁽²⁾	82	13580	28	4858
Violators	95	—	59	—
TOTAL	7589	16535	2731	5680
RATES	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.2 persons/veh		2.1 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.3 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	2.8 %		4.5 %	

NOTES: (1) Two or more persons per vehicle.

(2) Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only.

(3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$

(4) HOV lane in operation from 3:00 to 7:00 P.M.

(5) Observations conducted 05/06/10 at Tennyson Road I/C.

ALAMEDA-880

Whipple Road to South of Route 238

Northbound - A.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	52	4	16	1
Buses	40	19	17	4
Carpools ⁽¹⁾	2186	211	907	70
Vanpools	29	97	15	38
Hybrid/Single Occ. ⁽²⁾	78	11914	31	4363
Violators	41	—	3	—
TOTAL	2426	12245	989	4476

PERSONS	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	52	4	16	1
Buses	1400	665	595	140
Carpools ⁽¹⁾	4566	444	1873	152
Vanpools	290	970	150	380
Hybrid/Single Occ. ⁽²⁾	78	11914	31	4363
Violators	41	—	3	—
TOTAL	6427	13997	2668	5036

RATES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.6 persons/veh		2.7 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.4 persons/veh		1.4 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	1.7 %		0.3 %	

- NOTES:** (1) Two or more persons per vehicle.
 (2) Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$
 (4) HOV lane in operation from 5:00 to 9:00 A.M.
 (5) Observations conducted 05/12/10 at Tennyson Road I/C.

ALAMEDA-880

Whipple Road to South of Route 238

Northbound - P.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	101	15	40	9
Buses	28	26	8	5
Carpools ⁽¹⁾	2512	627	850	199
Vanpools	43	2	10	0
Hybrid/Single Occ. ⁽²⁾	149	11796	75	4158
Violators	46	—	1	—
TOTAL	2879	12466	984	4371

PERSONS	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	101	15	40	9
Buses	980	910	280	175
Carpools ⁽¹⁾	5241	1349	1794	430
Vanpools	430	20	100	0
Hybrid/Single Occ. ⁽²⁾	149	11796	75	4158
Violators	46	—	1	—
TOTAL	6947	14090	2290	4772

RATES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.4 persons/veh		2.3 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.4 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	1.6 %		0.1 %	

- NOTES:** (1) Two or more persons per vehicle.
 (2) Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$
 (4) HOV lane in operation from 3:00 to 7:00 P.M.
 (5) Observations conducted 05/11/10 at Tennyson Road I/C.

ALAMEDA-880

Marina Boulevard to Whipple Road

Violation History

Southbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Thu Mar 25, 2010	6:00 - 9:00 AM	2946	5.8%
	Wed Oct 21, 2009	6:00 - 9:00 AM	3133	5.9%
	Wed Apr 30, 2008	6:00 - 9:00 AM	2539	2.6%
	Thu Mar 22, 2007	6:00 - 9:00 AM	2923	3.9%
	Wed Oct 4, 2006	6:00 - 9:00 AM	2361	3.2%
	Wed Mar 30, 2005	6:00 - 9:00 AM	2278	2.9%
	Wed Nov 3, 2004	6:00 - 9:00 AM	2723	3.6%
	Tue Oct 7, 2003	6:00 - 9:00 AM	3049	3.7%
	Tue Jun 11, 2002	6:00 - 9:00 AM	3638	7.5%
	Wed Mar 21, 2001	6:00 - 9:00 AM	3971	5.2%
	Tue May 9, 2000	6:00 - 9:00 AM	3661	4.6%
P.M. PEAK	Thu May 6, 2010	3:00 - 6:00 PM	3442	2.8%
	Thu Mar 26, 2009	3:00 - 6:00 PM	3132	1.2%
	Tue Oct 14, 2008	3:00 - 6:00 PM	3155	5.9%
	Thu Oct 11, 2007	3:00 - 6:00 PM	3010	1.8%
	Thu Sep 28, 2006	3:00 - 6:00 PM	2494	1.5%
	Tue Nov 8, 2005	3:00 - 6:00 PM	3053	2.0%
	Wed Dec 1, 2004	3:00 - 6:00 PM	3036	2.6%
	Wed Jun 4, 2003	3:00 - 6:00 PM	3708	6.0%
	Wed Jun 5, 2002	3:00 - 6:00 PM	3401	5.2%
	Thu Apr 26, 2001	3:00 - 6:00 PM	3134	3.9%
	Tue May 9, 2000	3:00 - 6:00 PM	2484	5.6%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.

ALAMEDA-880

Whipple Road to South of Route 238

Violation History

Northbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Wed May 12, 2010	6:00 - 9:00 AM	2426	1.7%
	Wed May 13, 2009	6:00 - 9:00 AM	2833	1.1%
	Wed May 7, 2008	6:00 - 9:00 AM	2563	2.2%
	Wed Oct 3, 2007	6:00 - 9:00 AM	2485	0.3%
	Thu Dec 7, 2006	6:00 - 9:00 AM	2449	2.2%
	Thu Oct 6, 2005	6:00 - 9:00 AM	2735	2.0%
	Tue Nov 2, 2004	6:00 - 9:00 AM	2954	5.3%
	Thu May 22, 2003	6:00 - 9:00 AM	2920	1.4%
	Thu Sep 12, 2002	6:00 - 9:00 AM	2560	8.8%
	Thu Oct 11, 2001	6:00 - 9:00 AM	2212	5.2%
	Tue Nov 7, 2000	6:00 - 9:00 AM	1648	7.6%
P.M. PEAK	Tue May 11, 2010	3:00 - 6:00 PM	2879	1.6%
	Wed Jun 10, 2009	3:00 - 6:00 PM	3964	3.3%
	Tue Dec 2, 2008	3:00 - 6:00 PM	3522	1.7%
	Wed Sep 26, 2007	3:00 - 6:00 PM	3563	1.5%
	Tue Oct 24, 2006	3:00 - 6:00 PM	3203	1.1%
	Tue Apr 5, 2005	3:00 - 6:00 PM	3780	2.8%
	Tue Nov 30, 2004	3:00 - 6:00 PM	3422	1.6%
	Thu Oct 9, 2003	3:00 - 6:00 PM	3657	3.0%
	Wed May 8, 2002	3:00 - 6:00 PM	3878	8.4%
	Wed May 2, 2001	3:00 - 6:00 PM	4069	4.8%
	Thu Oct 5, 2000	3:00 - 6:00 PM	4433	6.4%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.

ALAMEDA-880

Whipple Road to Santa Clara Co. Line

Southbound - A.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾		PEAK HOUR	
	6:00 - 9:00 AM		8:00 - 9:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	38	0	15	0
Buses	24	23	6	1
Carpools ⁽¹⁾	1945	210	859	77
Vanpools	47	93	20	34
Hybrid/Single Occ. ⁽²⁾	159	12262	104	4233
Violators	27	—	12	—
TOTAL	2240	12588	1016	4345
PERSONS	HOV Lane		Mixed Flow Lanes	
	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	38	0	15	0
Buses	840	805	210	35
Carpools ⁽¹⁾	4069	433	1806	157
Vanpools	470	930	200	340
Hybrid/Single Occ. ⁽²⁾	159	12262	104	4233
Violators	27	—	12	—
TOTAL	5603	14430	2347	4765
RATES	HOV Lane		Mixed Flow Lanes	
	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.5 persons/veh		2.3 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.4 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	1.2 %		1.2 %	

- NOTES:** (1) Two or more persons per vehicle.
(2) Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only.
(3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$
(4) HOV lane in operation from 5:00 to 9:00 A.M.
(5) Observations conducted 05/26/10 at Mowry Ave. I/C.

ALAMEDA-880

Whipple Road to Santa Clara Co. Line

Southbound - P.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 3:00 - 4:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	31	18	9	3
Buses	3	13	2	6
Carpools ⁽¹⁾	1907	632	646	301
Vanpools	33	22	18	11
Hybrid/Single Occ. ⁽²⁾	52	11525	23	3780
Violators	78	—	70	—
TOTAL	2104	12210	768	4101
PERSONS	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	31	18	9	3
Buses	105	455	70	210
Carpools ⁽¹⁾	4015	1327	1351	632
Vanpools	330	220	180	110
Hybrid/Single Occ. ⁽²⁾	52	11525	23	3780
Violators	78	—	70	—
TOTAL	4611	13545	1703	4735
RATES	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.2 persons/veh		2.2 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.2 persons/veh	
Overall occupancy (incl. buses)	1.3 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	3.7 %		9.1 %	

- NOTES:** (1) Two or more persons per vehicle.
(2) Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only.
(3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$
(4) HOV lane in operation from 3:00 to 7:00 P.M.
(5) Observations conducted 05/04/10 at Mowry Ave. I/C.

ALAMEDA-880

Santa Clara County Line to Whipple Road

Northbound - A.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	39	23	13	12
Buses	13	25	7	11
Carpools ⁽¹⁾	898	548	349	196
Vanpools	8	20	2	6
Hybrid/Single Occ. ⁽²⁾	58	12867	25	4758
Violators	30	—	6	—
TOTAL	1046	13483	402	4983
PERSONS	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	39	23	13	12
Buses	455	875	245	385
Carpools ⁽¹⁾	1866	1152	719	413
Vanpools	80	200	20	60
Hybrid/Single Occ. ⁽²⁾	58	12867	25	4758
Violators	30	—	6	—
TOTAL	2528	15117	1028	5628
RATES	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.4 persons/veh		2.6 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	2.9 %		1.5 %	

- NOTES:** (1) Two or more persons per vehicle.
(2) Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only.
(3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$
(4) HOV lane in operation from 5:00 to 9:00 A.M.
(5) Observations conducted 05/06/10 at Mowry Ave I/C.

ALAMEDA-880

Santa Clara Co. Line to Whipple Road

Northbound - P.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	72	26	24	15
Buses	20	25	10	3
Carpools ⁽¹⁾	1701	923	678	270
Vanpools	34	15	5	5
Hybrid/Single Occ. ⁽²⁾	83	14156	42	4959
Violators	130	—	54	—
TOTAL	2040	15145	813	5252

PERSONS	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	72	26	24	15
Buses	700	875	350	105
Carpools ⁽¹⁾	3502	1938	1392	559
Vanpools	340	150	50	50
Hybrid/Single Occ. ⁽²⁾	83	14156	42	4959
Violators	130	—	54	—
TOTAL	4827	17145	1912	5688

RATES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.4 persons/veh		2.4 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.3 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	6.4 %		6.6 %	

- NOTES:** (1) Two or more persons per vehicle.
 (2) Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$
 (4) HOV lane in operation from 3:00 to 7:00 P.M.
 (5) Observations conducted 05/05/10 at Mowry Ave. I/C.

ALAMEDA-880

Whipple Road to Santa Clara Co. Line

Violation History

Southbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Wed May 26, 2010	6:00 - 9:00 AM	2240	1.2%
	Thu Mar 19, 2009	6:00 - 9:00 AM	2185	0.0%
	Wed Oct 8, 2008	6:00 - 9:00 AM	2538	0.2%
	Wed Nov 14, 2007	6:00 - 9:00 AM	2736	3.5%
	Tue Dec 5, 2006	6:00 - 9:00 AM	2509	12.0%
	Wed Oct 26, 2005	6:00 - 9:00 AM	1948	3.0%
	Tue Nov 9, 2004	6:00 - 9:00 AM	2355	2.7%
	Tue Jun 3, 2003	6:00 - 9:00 AM	2418	3.5%
	Tue Sep 24, 2002	6:00 - 9:00 AM	2525	3.2%
	Tue Mar 27, 2001	6:00 - 9:00 AM	3423	4.8%
P.M. PEAK	Tue May 4, 2010	3:00 - 6:00 PM	2104	3.7%
	Wed Oct 21, 2009	3:00 - 6:00 PM	3063	0.3%
	Tue Oct 7, 2008	3:00 - 6:00 PM	2283	2.0%
	Wed May 16, 2007	3:00 - 6:00 PM	2567	2.1%
	Wed Nov 8, 2006	3:00 - 6:00 PM	2669	0.7%
	Wed Nov 9, 2005	3:00 - 6:00 PM	2539	1.7%
	Tue Dec 14, 2004	3:00 - 6:00 PM	2639	6.8%
	Wed May 7, 2003	3:00 - 6:00 PM	2227	4.2%
	Tue May 7, 2002	3:00 - 6:00 PM	2114	5.8%
	Wed Oct 17, 2001	3:00 - 6:00 PM	2157	3.8%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.

(b) Evening period of operation from 3:00 to 7:00 PM.

ALAMEDA-880

Santa Clara Co. Line to Whipple Road

Violation History

Northbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Thu May 6, 2010	6:00 - 9:00 AM	1046	2.9%
	Wed Jun 10, 2009	6:00 - 9:00 AM	1056	2.4%
	Wed Apr 16, 2008	6:00 - 9:00 AM	1086	1.8%
	Thu Apr 12, 2007	6:00 - 9:00 AM	1218	0.9%
	Wed Nov 15, 2006	6:00 - 9:00 AM	1383	0.7%
	Thu Apr 14, 2005	6:00 - 9:00 AM	1327	4.7%
	Thu Nov 4, 2004	6:00 - 9:00 AM	1160	3.8%
	Wed Oct 15, 2003	6:00 - 9:00 AM	1413	2.5%
	Tue Apr 16, 2002	6:00 - 9:00 AM	925	2.9%
	Thu Nov 1, 2001	6:00 - 9:00 AM	856	9.7%
	Wed Mar 29, 2000	6:00 - 9:00 AM	956	5.6%
P.M. PEAK	Wed May 5, 2010	3:00 - 6:00 PM	2040	6.4%
	Wed May 6, 2009	3:00 - 6:00 PM	2587	1.9%
	Wed Nov 19, 2008	3:00 - 6:00 PM	2551	0.6%
	Thu Oct 18, 2007	3:00 - 6:00 PM	2702	2.3%
	Tue Nov 7, 2006	3:00 - 6:00 PM	2054	1.0%
	Tue Oct 18, 2005	3:00 - 6:00 PM	2695	3.7%
	Tue Nov 23, 2004	3:00 - 6:00 PM	2150	0.2%
	Wed Oct 15, 2003	3:00 - 6:00 PM	2366	3.1%
	Wed May 15, 2002	3:00 - 6:00 PM	2663	6.0%
	Thu Jun 7, 2001	3:00 - 6:00 PM	2755	3.9%
	Wed Nov 1, 2000	3:00 - 6:00 PM	3263	3.6%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.

(b) Evening period of operation from 3:00 to 7:00 PM.

ALAMEDA-880

16th Street to SFOBB Toll Plaza

Northbound - A.M.

Typical data for 2010 ⁽⁵⁾

PEAK PERIOD ⁽⁴⁾

6:00 - 10:00 AM

PEAK HOUR

6:00 - 7:00 AM

VEHICLES

	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	73	0	9	0
Buses	59	6	6	8
Carpools ⁽¹⁾	1339	0	207	0
Hybrid	148	0	24	0
Vanpools	24	0	5	3
1 and 2 Occ. ⁽²⁾	—	3495	—	1210
Violators	236	—	37	—
TOTAL	1879	3501	288	1221

PERSONS

	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	73	0	34	2
Buses	2065	210	210	280
Carpools ⁽¹⁾	3721	0	567	0
Hybrid	148	0	24	0
Vanpools	240	0	50	30
1 and 2 Occ. ⁽²⁾	—	3566	—	1349
Violators	336	—	61	—
TOTAL	6583	3776	946	1661

RATES

HOV Lane occupancy rate	3.5 persons/veh	3.3 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh	1.4 persons/veh
Overall occupancy (incl. buses)	1.9 persons/veh	1.7 persons/veh
Violation rate ⁽³⁾ (HOV Lane)	12.6 %	12.8 %

NOTES: (1) 3 or more persons per vehicle & 2 - seater vehicles with 2 persons.

(2) Mixed flow lanes only.

(3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$

(4) HOV lane in operation from 5:00 to 10:00 A.M.

(5) Observations conducted 5/25/10 north of 7th Street Interchange.

ALAMEDA-880

16th Street to SFOBB Toll Plaza

Violation History

Northbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Tue May 25, 2010	6:00 - 10:00 AM	1879	12.6%
	Thu Apr 2, 2009	7:00 - 10:00 AM	1914	11.1%
	Wed May 21, 2008	6:00 - 10:00 AM	1745	6.5%
	Thu Mar 15, 2007	7:00 - 10:00 AM	1875	12.6%
	Wed May 10, 2006	6:00 - 10:00 AM	1763	8.5%
	Wed Mar 16, 2005	6:00 - 10:00 AM	1483	10.5%
	Thu Oct 28, 2004	7:00 - 10:00 AM	1647	15.5%
	Wed May 21, 2003	5:00 - 10:00 AM	1451	5.6%
	Wed Apr 17, 2002	6:00 - 10:00 AM	1613	4.8%
	Thu Mar 22, 2001	6:00 - 10:00 AM	2402	15.5%
	Wed Sep 27, 2000	7:00 - 10:00 AM	2983	16.4%
P.M. PEAK	Year 2010	-	-	-
	Year 2009	-	-	-
	Year 2008	-	-	-
	Year 2007	-	-	-
	Year 2006	-	-	-
	Year 2005	-	-	-
	Year 2004	-	-	-
	Tue May 20, 2003	3:00 - 7:00 PM	457	3.5%
	Wed Apr 17, 2002	3:00 - 7:00 PM	486	6.8%
	Thu Oct 11, 2001	3:00 - 7:00 PM	397	14.6%
	Wed Oct 18, 2000	3:00 - 7:00 PM	513	43.3%

NOTES: (a) Morning period of operation from 5:00 to 10:00 AM
(b) Evening period of operation from 3:00 to 7:00 PM.
(c) Data was not collected in 2010 off-peak direction

CONTRA COSTA-4

Loveridge Road to Port Chicago Highway

Westbound - A.M.

Typical data for 2010 ⁽⁵⁾

	PEAK PERIOD ⁽⁴⁾		PEAK HOUR	
	6:00 - 9:00 AM		7:00 - 8:00 AM	
VEHICLES	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	92	23	29	7
Buses	3	19	1	2
Carpools ⁽¹⁾	2520	400	1158	177
Vanpools	23	28	5	10
Hybrid/Single Occ. ⁽²⁾	54	11745	24	3982
Violators	73	—	21	—
TOTAL	2765	12215	1238	4178
PERSONS	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	92	23	29	7
Buses	105	665	35	70
Carpools ⁽¹⁾	5151	856	2363	391
Vanpools	230	280	50	100
Hybrid/Single Occ. ⁽²⁾	54	11745	24	3982
Violators	73	—	21	—
TOTAL	5705	13569	2522	4550
RATES				
HOV Lane occupancy rate	2.1 persons/veh		2.0 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.3 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	2.6 %		1.7 %	

- NOTES:** (1) Two or more persons per vehicle.
 (2) Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$
 (4) HOV lane in operation from 6:00 to 9:00 A.M.
 (5) Observations conducted 04/14/10 at Bailey Road I/C.

CONTRA COSTA-4

Port Chicago Highway to Railroad Avenue

Eastbound - P.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	127	47	49	20
Buses	1	48	0	15
Carpools ⁽¹⁾	2530	1374	850	432
Vanpools	26	44	9	9
Hybrid/Single Occ. ⁽²⁾	58	17797	12	6342
Violators	58	—	11	—
TOTAL	2800	19310	931	6818
PERSONS	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	127	47	49	20
Buses	35	1680	0	525
Carpools ⁽¹⁾	5216	2945	1741	920
Vanpools	260	440	90	90
Hybrid/Single Occ. ⁽²⁾	58	17797	12	6342
Violators	58	—	11	—
TOTAL	5754	22909	1903	7897
RATES	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.1 persons/veh		2.0 persons/veh	
Mixed Flow occupancy rate	1.2 persons/veh		1.2 persons/veh	
Overall occupancy (incl. buses)	1.3 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	2.1 %		1.2 %	

- NOTES:** (1) Two or more persons per vehicle.
(2) Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only.
(3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$
(4) HOV lane in operation from 3:00 to 7:00 P.M.
(5) Observations conducted 06/02/10 at San Marcos I/C.

CONTRA COSTA-4

Loveridge Road to Port Chicago Highway

Violation History

Westbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Wed Apr 14, 2010	6:00 - 9:00 AM	2765	2.6%
	Wed Apr 29, 2009	6:00 - 9:00 AM	3079	2.7%
	Thu May 29, 2008	6:00 - 9:00 AM	3435	17.9%
	Thu Apr 19, 2007	6:00 - 9:00 AM	3246	7.9%
	Thu Sep 7, 2006	6:00 - 9:00 AM	2437	3.0%
	Tue Jun 7, 2005	6:00 - 9:00 AM	2634	3.3%
	Thu Oct 21, 2004	6:00 - 9:00 AM	2436	2.0%
	Thu Oct 16, 2003	6:00 - 9:00 AM	2657	3.6%
	Thu May 23, 2002	6:00 - 9:00 AM	2225	4.5%
	Wed Sep 19, 2001	6:00 - 9:00 AM	1174	7.0%
	Wed May 10, 2000	6:00 - 9:00 AM	861	5.6%

NOTES: (a) Morning period of operation from 6:00 to 9:00 AM.

CONTRA COSTA-4

Port Chicago Highway to Railroad Ave.

Violation History

Eastbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
P.M. PEAK	Wed Jun 2, 2010	3:00 - 6:00 PM	2800	2.1%
	Wed May 13, 2009	3:00 - 6:00 PM	2729	2.5%
	Tue May 6, 2008	3:00 - 6:00 PM	2794	3.3%
	Tue Apr 17, 2007	3:00 - 6:00 PM	2964	2.5%
	Wed Sep 6, 2006	3:00 - 6:00 PM	2942	1.7%
	Thu Oct 20, 2005	3:00 - 6:00 PM	2524	3.8%
	Tue Dec 7, 2004	3:00 - 6:00 PM	2289	1.7%
	Wed May 14, 2003	3:00 - 6:00 PM	2292	1.9%
	Tue Mar 19, 2002	3:00 - 6:00 PM	2248	4.4%
	Tue Oct 30, 2001	3:00 - 6:00 PM	2011	4.0%

NOTES: (a) Evening period of operation from 3:00 to 7:00 PM.

CONTRA COSTA-80

Solano County Line to Route 4

Westbound - A.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 10:00 AM		PEAK HOUR 6:00 - 7:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	88	41	35	8
Buses	46	30	17	5
Carpools ⁽¹⁾	1454	313	591	64
Hybrid	198	59	71	19
Vanpools	53	11	36	8
1 and 2 Occ. ⁽²⁾	—	11963	—	3081
Violators	140	—	37	—
TOTAL	1979	12417	787	3185

PERSONS	PEAK PERIOD ⁽⁴⁾ 6:00 - 10:00 AM		PEAK HOUR 6:00 - 7:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	88	41	35	8
Buses	1610	1050	595	175
Carpools ⁽¹⁾	4250	824	1701	396
Hybrid	198	59	71	19
Vanpools	530	110	360	80
1 and 2 Occ. ⁽²⁾	—	12906	—	3364
Violators	159	—	42	—
TOTAL	6835	14990	2804	4042

RATES	PEAK PERIOD ⁽⁴⁾ 6:00 - 10:00 AM		PEAK HOUR 6:00 - 7:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	3.5 persons/veh		3.6 persons/veh	
Mixed Flow occupancy rate	1.2 persons/veh		1.3 persons/veh	
Overall occupancy (incl. buses)	1.5 persons/veh		1.7 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	7.1 %		4.7 %	

NOTES: (1) 3 or more persons per vehicle & 2 - seater vehicles with 2 persons.

(2) Mixed flow lanes only.

(3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$

(4) HOV lane in operation from 5:00 to 10:00 A.M.

(5) Observations conducted 5/11/10 east of Cummings Skyway Interchange.

CONTRA COSTA-80

Solano County Line to Route 4

Violation History

Westbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Tue May 11, 2010	6:00 - 10:00 AM	1979	7.1%
	Wed May 20, 2009	6:00 - 10:00 AM	2228	6.9%
	Thu Nov 6, 2008	6:00 - 10:00 AM	2244	9.9%
P.M. PEAK	Year 2010	-	-	-
	Year 2009	-	-	-
	Year 2008	-	-	-

NOTES: (a) Morning period of operation from 5:00 to 10:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.
(c) Data was not collected in 2010 for off-peak direction

CONTRA COSTA-80

Route 4 to Alameda County Line

Westbound - A.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 10:00 AM		PEAK HOUR 6:00 - 7:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	103	18	38	4
Buses	124	14	35	3
Carpools ⁽¹⁾	3321	512	1090	108
Hybrid	365	28	85	9
Vanpools	51	9	357	1
1 and 2 Occ. ⁽²⁾	—	18809	—	5162
Violators	296	—	62	—
TOTAL	4260	19390	1667	5287

PERSONS	PEAK PERIOD ⁽⁴⁾ 6:00 - 10:00 AM		PEAK HOUR 6:00 - 7:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	103	18	38	4
Buses	4340	490	1225	105
Carpools ⁽¹⁾	9471	1407	2981	281
Hybrid	365	28	85	9
Vanpools	510	90	3570	10
1 and 2 Occ. ⁽²⁾	—	20408	—	5491
Violators	413	—	75	—
TOTAL	15202	22441	7974	5900

RATES	PEAK PERIOD ⁽⁴⁾ 6:00 - 10:00 AM		PEAK HOUR 6:00 - 7:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	3.6 persons/veh		4.8 persons/veh	
Mixed Flow occupancy rate		1.2 persons/veh		1.1 persons/veh
Overall occupancy (incl. buses)	1.6 persons/veh		2.0 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	6.9 %		3.7 %	

NOTES: (1) 3 or more persons per vehicle & 2 - seater vehicles with 2 persons.

(2) Mixed flow lanes only.

(3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$

(4) HOV lane in operation from 5:00 to 10:00 A.M.

(5) Observations conducted 5/19/10 east of Hilltop Drive Interchange.

CONTRA COSTA-80

Alameda County Line to Route 4

Eastbound - P.M.

Typical data for 2010

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 7:00 PM		PEAK HOUR 6:00 - 7:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	208	13	36	1
Buses	137	8	43	1
Carpools ⁽¹⁾	3736	509	1032	130
Hybrid	358	116	105	39
Vanpools	102	15	5	1
1 and 2 Occ. ⁽²⁾	—	17938	—	4628
Violators	504	—	111	—
TOTAL	5045	18599	1332	4800

PERSONS	PEAK PERIOD ⁽⁴⁾ 3:00 - 7:00 PM		PEAK HOUR 6:00 - 7:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	208	13	36	1
Buses	4795	280	1505	35
Carpools ⁽¹⁾	10676	1357	2987	354
Hybrid	358	116	105	39
Vanpools	1020	150	50	10
1 and 2 Occ. ⁽²⁾	—	20539	—	5359
Violators	795	—	167	—
TOTAL	17852	22455	4850	5798

RATES	PEAK PERIOD ⁽⁴⁾ 3:00 - 7:00 PM		PEAK HOUR 6:00 - 7:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	3.5 persons/veh		3.6 persons/veh	
Mixed Flow occupancy rate	1.2 persons/veh		1.2 persons/veh	
Overall occupancy (incl. buses)	1.7 persons/veh		1.7 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	10.0 %		8.3 %	

NOTES: (1) 3 or more persons per vehicle & 2 - seater vehicles with 2 persons.

(2) Mixed flow lanes only.

(3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$

(4) HOV lane in operation from 3:00 to 7:00 P.M.

(5) Observations conducted 5/12/10 east of Hilltop Drive Interchange.

CONTRA COSTA-80

Route 4 to Alameda County Line

Violation History

Westbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Wed May 19, 2010	6:00 - 10:00 AM	4260	6.9%
	Thu May 21, 2009	6:00 - 10:00 AM	3957	6.9%
	Thu May 22, 2008	6:00 - 10:00 AM	3539	10.4%
	Thu Oct 18, 2007	7:00 - 10:00 AM	2787	10.6%
	Wed May 24, 2006	6:00 - 10:00 AM	4095	10.9%
	Thu Nov 10, 2005	7:00 - 10:00 AM	2635	12.5%
	Tue Nov 9, 2004	7:00 - 10:00 AM	2507	9.2%
	Fri May 9, 2003	6:00 - 10:00 AM	4509	27.2%
	Tue Apr 16, 2002	7:00 - 10:00 AM	2656	6.4%
	Tue Mar 27, 2001	6:00 - 10:00 AM	3640	8.7%
	Tue Oct 3, 2000	7:00 - 10:00 AM	2643	9.5%
P.M. PEAK	Year 2010	-	-	-
	Year 2009	-	-	-
	Year 2008	-	-	-
	Year 2007	-	-	-
	Year 2006	-	-	-
	Year 2005	-	-	-
	Year 2004	-	-	-
	Year 2003	-	-	-
	Tue May 7, 2002	3:00 - 7:00 PM	1401	25.7%
	Thu Oct 4, 2001	3:00 - 7:00 PM	1432	24.2%
	Thu Apr 13, 2000	3:00 - 7:00 PM	1167	37.3%

NOTES: (a) Morning period of operation from 5:00 to 10:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.
(c) Data was not collected in 2010 for off-peak direction

CONTRA COSTA-80

Alameda County Line to Route 4

Violation History

Eastbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Year 2010	-	-	-
	Year 2009	-	-	-
	Year 2008	-	-	-
	Year 2007	-	-	-
	Year 2006	-	-	-
	Year 2005	-	-	-
	Year 2004	-	-	-
	Year 2003	-	-	-
	Tue Apr 23, 2002	6:00 - 10:00 AM	632	19.8%
	Tue May 15, 2001	6:00 - 10:00 AM	553	18.3%
	Thu Dec 14, 2000	7:00 - 10:00 AM	483	26.3%
P.M. PEAK	Wed May 12, 2010	3:00 - 7:00 PM	5045	10.0%
	Tue Sep 22, 2009	3:00 - 7:00 PM	3613	9.4%
	Thu Oct 9, 2008	3:00 - 7:00 PM	4323	2.5%
	Tue Apr 24, 2007	3:00 - 7:00 PM	3653	2.0%
	Tue May 2, 2006	3:00 - 7:00 PM	4580	6.7%
	Tue Apr 19, 2005	3:00 - 7:00 PM	3897	6.4%
	Thu Oct 21, 2004	3:00 - 6:00 PM	3214	9.3%
	Wed May 28, 2003	3:00 - 7:00 PM	4256	11.5%
	Tue Apr 16, 2002	3:00 - 7:00 PM	3921	9.0%
	Thu Sep 20, 2001	3:00 - 7:00 PM	4649	4.4%
	Tue Sep 26, 2000	3:00 - 7:00 PM	3780	18.0%

NOTES: (a) Morning period of operation from 5:00 to 10:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.
(c) Data was not collected in 2010 off-peak direction

CONTRA COSTA-680

N/O Marina Vista I/C to Benicia Bridge Toll Plaza

Northbound - P.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	100	15	41	4
Buses	17	5	3	1
Carpools ⁽¹⁾	232	32	91	12
Vanpools	6	1	1	1
Hybrid / Single Occ. ⁽²⁾	34	10491	11	3502
Violators	569	—	192	—
TOTAL	958	10544	339	3520
PERSONS	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	100	15	41	4
Buses	595	175	105	35
Carpools ⁽¹⁾	696	96	273	36
Vanpools	60	10	10	10
Hybrid / Single Occ. ⁽²⁾	34	11547	11	3845
Violators	1133	—	383	—
TOTAL	2618	11843	823	3930
RATES	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.7 persons/veh		2.4 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.3 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	59.4 %		56.6 %	

NOTES: (1) Three or more persons per vehicle.

(2) Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only.

(3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$

(4) HOV lane in operation from 5:00 to 10:00 A.M.

(5) Observations conducted 3/23/10 at Benicia Bridge Toll Plaza.

CONTRA COSTA-680

Violation History

N/O Marina Vista I/C to Benicia Bridge Toll Plaza

Northbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Year 2010	-	-	-
	Thu Apr 23, 2009	6:00 - 9:00 AM	347	61.4%
	Tue Oct 28, 2008	6:00 - 9:00 AM	332	3.6%
	Thu Sep 6, 2007	6:00 - 9:00 AM	345	3.5%
P.M. PEAK	Tue Mar 23, 2010	3:00 - 6:00 PM	958	59.4%
	Wed Apr 22, 2009	3:00 - 6:00 PM	795	22.0%
	Wed Dec 10, 2008	3:00 - 6:00 PM	817	12.1%
	Wed Sep 5, 2007	3:00 - 6:00 PM	870	7.8%

NOTES:

- (a) Morning period of operation from 5:00 to 10:00 AM.
- (b) Evening period of operation from 3:00 to 7:00 PM.

CONTRA COSTA-680

Marina Vista I/C to N/O North Main St.

Southbound - A.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 6:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	55	48	21	13
Buses	8	90	2	14
Carpools ⁽¹⁾	3180	986	1266	350
Vanpools	21	82	3	38
Hybrid/Single Occ. ⁽²⁾	161	19550	70	6448
Violators	41	—	13	—
TOTAL	3466	20756	1375	6863
PERSONS	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	55	48	21	13
Buses	280	3150	70	490
Carpools ⁽¹⁾	6869	1216	2823	382
Vanpools	210	820	30	380
Hybrid/Single Occ. ⁽²⁾	161	19550	70	6448
Violators	41	—	13	—
TOTAL	7616	24784	3027	7713
RATES				
HOV Lane occupancy rate	2.2	persons/veh	2.2	persons/veh
Mixed Flow occupancy rate	1.2	persons/veh	1.1	persons/veh
Overall occupancy (incl. buses)	1.3	persons/veh	1.3	persons/veh
Violation rate ⁽³⁾ (HOV Lane)	1.2	%	0.9	%

NOTES: (1) Two or more persons per vehicle.

(2) Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only.

(3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$

(4) HOV lane in operation from 5:00 to 9:00 A.M.

(5) Observations conducted 05/19/10 at Truck Scale.

CONTRA COSTA-680

Marina Vista I/C to N/O North Main St.

Southbound - P.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 4:00 - 5:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	19	21	8	7
Buses	5	54	1	20
Carpools ⁽¹⁾	820	2181	271	665
Vanpools	4	81	0	24
Hybrid/Single Occ. ⁽²⁾	32	22498	12	7705
Violators	45	—	8	—
TOTAL	925	24835	300	8421
PERSONS	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	19	21	8	7
Buses	175	1890	35	700
Carpools ⁽¹⁾	1723	2706	565	863
Vanpools	40	810	0	240
Hybrid/Single Occ. ⁽²⁾	32	22498	12	7705
Violators	45	—	8	—
TOTAL	2034	27925	628	9515
RATES	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.2 persons/veh		2.1 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	4.9 %		2.7 %	

- NOTES:** (1) Two or more persons per vehicle.
(2) Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only.
(3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$
(4) HOV lane in operation from 3:00 to 7:00 P.M.
(5) Observations conducted 05/19/10 at Truck Scale.

CONTRA COSTA - 680

Marina Vista I/C. to N/O North Main St

Violation History

Southbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Wed May 19, 2010	6:00 - 9:00 AM	3466	1.2%
	Year 2009	-	-	-
	Thu Nov 13, 2008	6:00 - 9:00 AM	2598	1.8%
	Wed Mar 28, 2007	6:00 - 9:00 AM	2959	1.5%
	Wed Oct 11, 2006	6:00 - 9:00 AM	2727	1.0%
	Tue May 3, 2005	6:00 - 9:00 AM	2387	0.9%
	Wed Oct 6, 2004	6:00 - 9:00 AM	2068	2.0%
P.M. PEAK	Wed May 19, 2010	3:00 - 6:00 PM	925	4.9%
	Wed May 20, 2009	3:00 - 6:00 PM	1328	0.8%
	Wed Nov 12, 2008	3:00 - 6:00 PM	1325	1.1%
	Wed Mar 28, 2007	3:00 - 6:00 PM	1378	1.5%
	Wed Oct 25, 2006	3:00 - 6:00 PM	1270	1.4%
	Tue Sep 27, 2005	3:00 - 6:00 PM	1095	2.1%
	Tue Oct 5, 2004	3:00 - 6:00 PM	1083	4.2%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.

CONTRA COSTA-680

Route 242 to Marina Vista I/C

Northbound - A.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	25	9	10	2
Buses	17	10	11	6
Carpools ⁽¹⁾	419	382	168	199
Vanpools	0	15	0	6
Hybrid/Single Occ. ⁽²⁾	23	6382	13	2339
Violators	58	—	26	—
TOTAL	542	6798	228	2552
PERSONS	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	25	9	10	2
Buses	595	350	385	210
Carpools ⁽¹⁾	930	785	372	416
Vanpools	0	150	0	60
Hybrid/Single Occ. ⁽²⁾	23	6382	13	2339
Violators	58	—	26	—
TOTAL	1631	7676	806	3027
RATES	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	3.0 persons/veh		3.5 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.2 persons/veh	
Overall occupancy (incl. buses)	1.3 persons/veh		1.4 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	10.7 %		11.4 %	

NOTES: (1) Two or more persons per vehicle.

(2) Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only.

(3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$

(4) HOV lane in operation from 5:00 to 9:00 A.M.

(5) Observations conducted 04/15/10 at Pacheco Boulevard.

CONTRA COSTA-680

Route 242 to Marina Vista I/C

Northbound - P.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	37	12	12	2
Buses	4	10	1	2
Carpools ⁽¹⁾	1289	1015	400	304
Vanpools	27	7	1	2
Hybrid/Single Occ. ⁽²⁾	44	9641	15	3534
Violators	80	—	39	—
TOTAL	1481	10685	468	3844
PERSONS	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	37	12	12	2
Buses	140	350	35	70
Carpools ⁽¹⁾	2839	2118	879	633
Vanpools	270	70	10	20
Hybrid/Single Occ. ⁽²⁾	44	9641	15	3534
Violators	80	—	39	—
TOTAL	3410	12191	990	4259
RATES	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.3 persons/veh		2.1 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.3 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	5.4 %		8.3 %	

NOTES: (1) Two or more persons per vehicle.

(2) Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only.

(3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$

(4) HOV lane in operation from 3:00 to 7:00 P.M.

(5) Observations conducted 04/14/10 at Pacheco Boulevard.

CONTRA COSTA - 680

Route 242 to Marina Vista I/C.

Violation History

Northbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Thu Apr 15, 2010	6:00 - 9:00 AM	542	10.7%
	Thu Mar 12, 2009	6:00 - 9:00 AM	522	0.0%
	Wed Nov 12, 2008	6:00 - 9:00 AM	698	1.3%
	Wed Sep 5, 2007	6:00 - 9:00 AM	479	5.8%
	Wed Apr 26, 2006	6:00 - 9:00 AM	511	13.7%
	Thu Sep 22, 2005	6:00 - 9:00 AM	560	5.5%
P.M. PEAK	Wed Apr 14, 2010	3:00 - 6:00 PM	1481	5.4%
	Thu May 21, 2009	3:00 - 6:00 PM	2949	1.6%
	Thu Nov 13, 2008	3:00 - 6:00 PM	1701	2.4%
	Tue Oct 30, 2007	3:00 - 6:00 PM	1636	7.3%
	Thu Oct 26, 2006	3:00 - 6:00 PM	1732	2.3%
	Thu Oct 6, 2005	3:00 - 6:00 PM	1910	8.8%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.

(b) Evening period of operation from 3:00 to 7:00 PM.

CONTRA COSTA-680

Livorna Road to Alcosta Boulevard

Southbound - A.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	20	5	10	0
Buses	31	34	11	17
Carpools ⁽¹⁾	1752	462	675	182
Vanpools	41	6	6	3
Hybrid/Single Occ. ⁽²⁾	148	12099	66	4322
Violators	76	—	33	—
TOTAL	2068	12606	801	4524
PERSONS	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	20	5	10	0
Buses	1085	1190	385	595
Carpools ⁽¹⁾	3658	950	1419	376
Vanpools	410	60	60	30
Hybrid/Single Occ. ⁽²⁾	148	12099	66	4322
Violators	76	—	33	—
TOTAL	5397	14304	1973	5323
RATES	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.6 persons/veh		2.5 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.2 persons/veh	
Overall occupancy (incl. buses)	1.3 persons/veh		1.4 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	3.7 %		4.1 %	

NOTES: (1) Two or more persons per vehicle.

(2) Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only.

(3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$

(4) HOV lane in operation from 5:00 to 9:00 A.M.

(5) Observations conducted 04/21/10 at Stone Valley Road.

CONTRA COSTA-680

Livorna Road to Alcosta Boulevard

Southbound - P.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	9	2	4	0
Buses	21	10	10	2
Carpools ⁽¹⁾	1995	1128	928	237
Vanpools	12	77	2	15
Hybrid/Single Occ. ⁽²⁾	60	13818	30	5090
Violators	29	—	15	—
TOTAL	2126	15035	989	5344
PERSONS	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	9	2	4	0
Buses	735	350	350	70
Carpools ⁽¹⁾	4113	2362	1903	510
Vanpools	120	770	20	150
Hybrid/Single Occ. ⁽²⁾	60	13818	30	5090
Violators	29	—	15	—
TOTAL	5066	17302	2322	5820
RATES	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.4 persons/veh		2.3 persons/veh	
Mixed Flow occupancy rate	1.2 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.3 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	1.4 %		1.5 %	

NOTES: (1) Two or more persons per vehicle.

(2) Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only.

(3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$

(4) HOV lane in operation from 3:00 to 7:00 P.M.

(5) Observations conducted 04/28/10 at Stone Valley Road.

CONTRA COSTA-680

Alcosta Boulevard to Livorna Road

Northbound - A.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	25	6	9	3
Buses	29	30	10	12
Carpools ⁽¹⁾	1843	249	786	100
Vanpools	4	6	0	0
Hybrid/Single Occ. ⁽²⁾	114	11916	47	4527
Violators	34	—	3	—
TOTAL	2049	12207	855	4642

PERSONS	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	25	6	9	3
Buses	1015	1050	350	420
Carpools ⁽¹⁾	3881	523	1672	212
Vanpools	40	60	0	0
Hybrid/Single Occ. ⁽²⁾	114	11916	47	4527
Violators	34	—	3	—
TOTAL	5109	13555	2081	5162

RATES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.5 persons/veh		2.4 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.3 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	1.7 %		0.4 %	

NOTES: (1) Two or more persons per vehicle.

(2) Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only.

(3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$

(4) HOV lane in operation from 5:00 to 9:00 A.M.

(5) Observations conducted 04/22/10 at Stone Valley Road.

CONTRA COSTA-680

Alcosta Boulevard to Livorna Road

Northbound - P.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 3:00 - 4:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	35	19	5	2
Buses	16	37	3	24
Carpools ⁽¹⁾	2531	615	846	303
Vanpools	32	10	6	3
Hybrid/Single Occ. ⁽²⁾	34	12488	7	4270
Violators	53	—	33	—
TOTAL	2701	13169	900	4602
PERSONS	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	35	19	5	2
Buses	560	1295	105	840
Carpools ⁽¹⁾	5124	1287	1715	623
Vanpools	320	100	60	30
Hybrid/Single Occ. ⁽²⁾	34	12488	7	4270
Violators	53	—	33	—
TOTAL	6126	15189	1925	5765
RATES	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.3 persons/veh		2.1 persons/veh	
Mixed Flow occupancy rate	1.2 persons/veh		1.3 persons/veh	
Overall occupancy (incl. buses)	1.3 persons/veh		1.4 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	2.0 %		3.7 %	

NOTES: (1) Two or more persons per vehicle.

(2) Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only.

(3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$

(4) HOV lane in operation from 3:00 to 7:00 P.M.

(5) Observations conducted 04/22/10 at Stone Valley Road.

CONTRA COSTA-680

Livorna Road to Alcosta Boulevard

Violation History

Southbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Wed Apr 21, 2010	6:00 - 9:00 AM	2068	3.7%
	Wed Oct 7, 2009	6:00 - 9:00 AM	2317	4.7%
	Tue Dec 9, 2008	6:00 - 9:00 AM	2384	0.6%
	Thu Oct 4, 2007	6:00 - 9:00 AM	2838	2.2%
	Thu Jun 8, 2006	6:00 - 9:00 AM	3047	7.6%
	Wed Nov 16, 2005	6:00 - 9:00 AM	2793	4.4%
	Tue Oct 5, 2004	6:00 - 9:00 AM	2118	4.5%
	Thu Apr 3, 2003	6:00 - 9:00 AM	2114	0.6%
	Thu Jun 13, 2002	6:00 - 9:00 AM	2480	1.7%
	Thu Mar 15, 2001	6:00 - 9:00 AM	2609	5.3%
	Thu Apr 6, 2000	6:00 - 9:00 AM	2258	2.8%
P.M. PEAK	Wed Apr 28, 2010	3:00 - 6:00 PM	2126	1.4%
	Tue May 19, 2009	3:00 - 6:00 PM	2226	2.0%
	Wed Nov 5, 2008	3:00 - 6:00 PM	2277	0.8%
	Thu Oct 25, 2007	3:00 - 6:00 PM	2889	3.4%
	Wed Sep 20, 2006	3:00 - 6:00 PM	3143	1.3%
	Tue Nov 15, 2005	3:00 - 6:00 PM	2640	3.0%
	Thu Oct 28, 2004	3:00 - 6:00 PM	2527	2.6%
	Tue Apr 8, 2003	3:00 - 6:00 PM	2109	2.4%
	Wed Mar 13, 2002	3:00 - 6:00 PM	2009	7.8%
	Wed May 9, 2001	3:00 - 6:00 PM	1831	8.5%
	Tue Dec 12, 2000	3:00 - 6:00 PM	1337	4.3%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.

CONTRA COSTA-680

Alcosta Boulevard to Livorna Road

Violation History

Northbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Thu Apr 22, 2010	6:00 - 9:00 AM	2049	1.7%
	Wed Mar 11, 2009	6:00 - 9:00 AM	2231	0.3%
	Wed Apr 9, 2008	6:00 - 9:00 AM	1656	0.4%
	Thu Mar 8, 2007	6:00 - 9:00 AM	1847	3.9%
	Wed Sep 13, 2006	6:00 - 9:00 AM	2194	2.1%
	Wed Apr 27, 2005	6:00 - 9:00 AM	1891	3.5%
	Thu Oct 7, 2004	6:00 - 9:00 AM	1899	3.0%
	Tue Oct 21, 2003	6:00 - 9:00 AM	1920	5.0%
	Thu Apr 25, 2002	6:00 - 9:00 AM	1746	6.9%
	Tue Sep 25, 2001	6:00 - 9:00 AM	1681	3.0%
	Thu Nov 2, 2000	6:00 - 9:00 AM	1263	7.0%
P.M. PEAK	Thu Apr 22, 2010	3:00 - 6:00 PM	2701	2.0%
	Thu May 14, 2009	3:00 - 6:00 PM	2792	1.4%
	Tue May 20, 2008	3:00 - 6:00 PM	3700	1.1%
	Tue Sep 11, 2007	3:00 - 6:00 PM	3759	2.2%
	Wed Nov 29, 2006	3:00 - 6:00 PM	3757	0.9%
	Tue Apr 26, 2005	3:00 - 6:00 PM	3727	3.2%
	Thu Dec 2, 2004	3:00 - 6:00 PM	3842	2.4%
	Tue Oct 21, 2003	3:00 - 6:00 PM	3677	3.4%
	Wed Nov 20, 2002	3:00 - 6:00 PM	3989	4.5%
	Tue May 8, 2001	3:00 - 6:00 PM	3742	5.0%
	Wed Oct 4, 2000	3:00 - 6:00 PM	4165	3.6%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.

MARIN-101

Route 37 to Mission Road

Southbound - A.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:30 - 8:30 AM		PEAK HOUR 7:30 - 8:30 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	48	15	29	6
Buses	27	9	11	3
Carpools ⁽¹⁾	1245	412	731	171
Vanpools	8	2	2	0
Hybrid/Single Occ. ⁽²⁾	94	8980	48	4544
Violators	19	—	3	—
TOTAL	1441	9418	824	4724
PERSONS	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	48	15	29	6
Buses	945	315	385	105
Carpools ⁽¹⁾	2543	889	1495	368
Vanpools	80	20	20	0
Hybrid/Single Occ. ⁽²⁾	94	8980	48	4544
Violators	19	—	3	—
TOTAL	3729	10219	1980	5023
RATES	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.6 persons/veh		2.4 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.3 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	1.3 %		0.4 %	

- NOTES:** (1) Two or more occupants per vehicle.
(2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only.
(3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$
(4) HOV lane in operation from 6:30 to 8:30 A.M.
(5) Observations conducted 04/13/10 at Alameda Del Prado Drive I/C.

MARIN-101

Mission Road to Route 37

Northbound - P.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 4:30 - 7:00 PM		PEAK HOUR 4:30 - 5:30 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	54	16	18	5
Buses	41	29	16	6
Carpools ⁽¹⁾	1410	848	655	259
Vanpools	11	4	7	1
Hybrid/Single Occ. ⁽²⁾	81	12325	34	5345
Violators	20	—	17	—
TOTAL	1617	13222	747	5616
PERSONS	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	54	16	18	5
Buses	1435	1015	560	210
Carpools ⁽¹⁾	2866	1787	1328	546
Vanpools	110	40	70	10
Hybrid/Single Occ. ⁽²⁾	81	12325	34	5345
Violators	20	—	17	—
TOTAL	4566	15183	2027	6116
RATES	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.8 persons/veh		2.7 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.3 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	1.2 %		2.3 %	

NOTES: (1) Two or more occupants per vehicle.

(2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only.

(3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$

(4) HOV lane in operation from 4:30 to 7:00 P.M.

(5) Observations conducted 04/13/10 at Manuel Freitas Truck Scale.

MARIN-101

Route 37 to Mission Avenue

Violation History

Southbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Tue Apr 13, 2010	6:30 - 8:30 AM	1441	1.3%
	Thu mar 12, 2009	6:30 - 8:30 AM	1225	1.5%
	Thu Oct 9, 2008	6:30 - 8:30 AM	1749	2.0%
	Thu Sep 13, 2007	6:30 - 8:30 AM	2141	1.1%
	Tue Oct 3, 2006	6:30 - 8:30 AM	2174	1.4%
	Wed Nov 2, 2005	6:30 - 8:30 AM	2276	1.3%
	Wed Nov 3, 2004	6:30 - 8:30 AM	2343	1.9%
	Thu Apr 3, 2003	6:30 - 8:30 AM	2335	2.2%
	Tue Mar 19, 2002	6:30 - 8:30 AM	2564	1.2%
	Wed Oct 31, 2001	6:30 - 8:30 AM	2520	1.4%
	Wed Mar 22, 2000	6:30 - 8:30 AM	2610	1.1%

NOTES: (a) Minimum occupancy requirement was reduced to 2 persons per vehicle on October 1, 1988
(b) Morning period of operation from 6:30 to 8:30 AM.

MARIN-101

Mission Avenue to Route 37

Violation History

Northbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
P.M. PEAK	Tue Apr 13, 2010	4:30 - 7:00 PM	1617	1.2%
	Thu Oct 1, 2009	4:30 - 7:00 PM	2219	1.3%
	Thu Apr 3, 2008	4:30 - 7:00 PM	1724	0.9%
	Thu Sep 13, 2007	4:30 - 7:00 PM	1874	1.1%
	Wed Apr 5, 2006	4:30 - 7:00 PM	1559	2.2%
	Thu Apr 21, 2005	4:30 - 7:00 PM	1545	4.0%
	Thu Oct 7, 2004	4:30 - 7:00 PM	1577	2.5%
	Wed Apr 9, 2003	4:30 - 7:00 PM	1851	3.2%
	Thu Sep 19, 2002	4:30 - 7:00 PM	1552	2.6%
	Tue Sep 18, 2001	4:30 - 7:00 PM	1580	1.1%
	Tue Mar 21, 2000	4:30 - 7:00 PM	1921	2.7%

NOTES: (a) *Minimum occupancy requirement was reduced to 2 persons per vehicle on October 1, 1988*
(b) *Evening period of operation from 4:30 to 7:00 PM.*

MARIN-101

Mission Road to Richardson Bay Bridge

Southbound - A.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:30 - 8:30 AM		PEAK HOUR 7:30 - 8:30 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	45	13	27	9
Buses	28	38	18	19
Carpools ⁽¹⁾	561	588	301	345
Vanpools	10	3	5	2
Hybrid/Single Occ. ⁽²⁾	84	8481	50	4367
Violators	15	—	9	—
TOTAL	743	9123	410	4742
PERSONS	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	45	13	27	9
Buses	980	1330	630	665
Carpools ⁽¹⁾	1168	1241	624	731
Vanpools	100	30	50	20
Hybrid/Single Occ. ⁽²⁾	84	8481	50	4367
Violators	15	—	9	—
TOTAL	2392	11095	1390	5792
RATES	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	3.2 persons/veh		3.4 persons/veh	
Mixed Flow occupancy rate	1.2 persons/veh		1.2 persons/veh	
Overall occupancy (incl. buses)	1.4 persons/veh		1.4 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	2.0 %		2.2 %	

NOTES: (1) Two or more occupants per vehicle.

(2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only.

(3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$

(4) HOV lane in operation from 6:30 to 8:30 A.M.

(5) Observations conducted 04/14/10 at Route 131, E. Blithdale Ave. I/C.

MARIN-101

Richardson Bay Bridge to Mission Road

Northbound - P.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 4:30 - 7:00 PM		PEAK HOUR 4:30 - 5:30 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	55	31	29	13
Buses	63	37	30	13
Carpools ⁽¹⁾	1097	1363	515	558
Vanpools	8	2	5	1
Hybrid/Single Occ. ⁽²⁾	81	10406	40	4320
Violators	21	—	21	—
TOTAL	1325	11839	640	4905

PERSONS	PEAK PERIOD ⁽⁴⁾ 4:30 - 7:00 PM		PEAK HOUR 4:30 - 5:30 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	55	31	29	13
Buses	2205	1295	1050	455
Carpools ⁽¹⁾	2240	2884	1062	1182
Vanpools	80	20	50	10
Hybrid/Single Occ. ⁽²⁾	81	10406	40	4320
Violators	21	—	21	—
TOTAL	4682	14636	2252	5980

RATES	PEAK PERIOD ⁽⁴⁾ 4:30 - 7:00 PM		PEAK HOUR 4:30 - 5:30 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	3.5 persons/veh		3.6 persons/veh	
Mixed Flow occupancy rate	1.2 persons/veh		1.2 persons/veh	
Overall occupancy (incl. buses)	1.5 persons/veh		1.5 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	1.6 %		3.3 %	

NOTES: (1) Two or more occupants per vehicle.

(2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only.

(3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$

(4) HOV lane in operation from 4:30 to 7:00 P.M.

(5) Observations conducted 04/15/10 at Route 131, E. Blithdale Ave. I/C.

MARIN-101

Mission Avenue to Richardson Bay Bridge

Violation History

Southbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Wed Apr 14, 2010	6:30 - 8:30 AM	743	2.0%
	Tue June 2, 2009	6:30 - 8:30 AM	1132	2.1%
	Wed Oct 15, 2008	6:30 - 8:30 AM	1104	1.6%
	Wed Sep 19, 2007	6:30 - 8:30 AM	1159	1.5%
	Thu Apr 13, 2006	6:30 - 8:30 AM	1049	1.4%
	Thu Mar 3, 2005	6:30 - 8:30 AM	1099	3.0%
	Thu Nov 4, 2004	6:30 - 8:30 AM	1015	4.4%
	Tue Apr 8, 2003	6:30 - 8:30 AM	1118	3.4%
	Wed Mar 20, 2002	6:30 - 8:30 AM	1591	1.9%
	Wed Mar 28, 2001	6:30 - 8:30 AM	1495	2.3%
	Thu Mar 23, 2000	6:30 - 8:30 AM	1538	2.8%

NOTES: (a) Minimum occupancy requirement was reduced to 2 persons per vehicle on October 1, 1988
(b) Morning period of operation from 6:30 to 8:30 AM.

MARIN-101

Richardson Bay Bridge to Mission Avenue

Violation History

Northbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
P.M. PEAK	Thu Apr 15, 2010	4:30 - 7:00 PM	1325	1.6%
	Thu Sep 24, 2009	4:30 - 7:00 PM	1848	1.1%
	Wed Oct 15, 2008	4:30 - 7:00 PM	1262	1.4%
	Wed Oct 3, 2007	4:30 - 7:00 PM	2545	1.2%
	Thu Apr 6, 2006	4:30 - 7:00 PM	1781	1.4%
	Thu Sep 29, 2005	4:30 - 7:00 PM	1953	1.6%
	Wed Oct 13, 2004	4:30 - 7:00 PM	1529	1.9%
	Wed Apr 16, 2003	4:30 - 7:00 PM	1370	2.4%
	Tue Sep 17, 2002	4:30 - 7:00 PM	1365	1.5%
	Tue Apr 3, 2001	4:30 - 7:00 PM	1544	3.9%
	Tue Oct 3, 2000	4:30 - 7:00 PM	1771	1.6%

NOTES: (a) Minimum occupancy requirement was reduced to 2 persons per vehicle on October 1, 1988
(b) Evening period of operation from 4:30 to 7:00 PM.

SANTA CLARA-85

Route 101 (Mountain View) to Route 280

Southbound - P.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 3:00 - 4:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	98	2	20	0
Buses	15	3	4	3
Carpools ⁽¹⁾	1873	516	564	284
Vanpools	2	1	0	1
Hybrid/Single Occ. ⁽²⁾	307	8894	57	3537
Violators	54	—	42	—
TOTAL	2349	9416	687	3825
PERSONS	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	98	2	20	0
Buses	525	105	140	105
Carpools ⁽¹⁾	3864	1075	1170	593
Vanpools	20	10	0	10
Hybrid/Single Occ. ⁽²⁾	307	8894	57	3537
Violators	54	—	42	—
TOTAL	4868	10086	1429	4245
RATES	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.1 persons/veh		2.1 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.3 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	2.3 %		6.1 %	

- NOTES:** (1) Two or more occupants per vehicle.
(2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only
(3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
(4) HOV lane in operation from 3:00 to 7:00 P.M.
(5) Observations conducted 03/16/10 at Fremont Avenue I/C

SANTA CLARA-85

Route 280 to Route 101 (Mountain View)

Northbound - A.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	86	13	40	5
Buses	19	0	11	0
Carpools ⁽¹⁾	1265	347	674	125
Vanpools	6	4	3	1
Hybrid/Single Occ. ⁽²⁾	241	10230	134	3616
Violators	26	—	11	—
TOTAL	1643	10594	873	3747

PERSONS	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	86	13	40	5
Buses	665	0	385	0
Carpools ⁽¹⁾	2636	777	1411	278
Vanpools	60	40	30	10
Hybrid/Single Occ. ⁽²⁾	241	10230	134	3616
Violators	26	—	11	—
TOTAL	3714	11060	2011	3909

RATES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.3 persons/veh		2.3 persons/veh	
Mixed Flow occupancy rate	1.0 persons/veh		1.0 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	1.6 %		1.3 %	

- NOTES:** (1) Two or more occupants per vehicle.
 (2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) HOV lane in operation from 5:00 to 9:00 A.M.
 (5) Observations conducted 04/15/10 at Fremont Avenue I/C

SANTA CLARA-85

Route 101 (Mountain View) to Route 280

Violation History

Southbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Year 2010	-	-	-
	Year 2009	-	-	-
	Year 2008	-	-	-
	Year 2007	-	-	-
	Year 2006	-	-	-
	Year 2005	-	-	-
	Year 2004	-	-	-
	Year 2003	-	-	-
	Wed Oct 23, 2002	7:00 - 9:00 AM	540	10.0%
	Thu Jun 7, 2001	6:00 - 9:00 AM	560	4.1%
	Wed Sep 27, 2000	6:00 - 9:00 AM	604	13.2%

P.M. PEAK	Wed Mar 10, 2010	3:00 - 6:00 PM	2349	2.3%
	Thu Apr 30, 2009	3:00 - 6:00 PM	2409	1.9%
	Tue Sep 30, 2008	3:00 - 6:00 PM	2853	2.7%
	Wed Dec 12, 2007	3:00 - 6:00 PM	2947	4.0%
	Tue Oct 24, 2006	3:00 - 6:00 PM	2164	0.5%
	Wed Oct 12, 2005	3:00 - 6:00 PM	2265	0.7%
	Tue Nov 30, 2004	3:00 - 5:15 PM	1510	0.7%
	Wed Jun 4, 2003	3:00 - 6:00 PM	2323	1.6%
	Wed May 29, 2002	3:00 - 6:00 PM	2647	4.4%
	Tue Sep 25, 2001	3:00 - 6:00 PM	2656	6.4%
	Thu Jun 1, 2000	3:00 - 6:00 PM	2792	0.9%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.
(c) Data was not collected in 2010 off-peak direction

SANTA CLARA-85

Route 280 to Route 101 (Mountain View)

Violation History

Northbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Thu Apr 15, 2010	6:00 - 9:00 AM	1643	1.6%
	Tue May 12, 2009	6:00 - 9:00 AM	2527	1.8%
	Wed Dec 10, 2008	6:00 - 9:00 AM	2168	2.0%
	Tue Apr 17, 2007	6:00 - 9:00 AM	2722	0.0%
	Wed Oct 11, 2006	6:00 - 9:00 AM	2501	0.7%
	Tue Oct 18, 2005	6:00 - 9:00 AM	1703	3.0%
	Wed Nov 3, 2004	6:00 - 9:00 AM	2132	0.7%
	Wed Oct 29, 2003	6:00 - 9:00 AM	1151	0.8%
	Tue Oct 8, 2002	7:00 - 9:00 AM	1435	1.5%
	Tue Apr 10, 2001	6:00 - 9:00 AM	2471	1.8%
	Tue Oct 17, 2000	7:00 - 9:00 AM	2188	10.1%
P.M. PEAK	Year 2010	-	-	-
	Year 2009	-	-	-
	Year 2008	-	-	-
	Year 2007	-	-	-
	Year 2006	-	-	-
	Year 2005	-	-	-
	Year 2004	-	-	-
	Year 2003	-	-	-
	Thu Oct 31, 2002	3:00 - 5:30 PM	761	2.2%
	Wed Oct 10, 2001	3:00 - 6:00 PM	1124	0.4%
	Thu May 4, 2000	3:00 - 6:00 PM	940	2.1%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
 (b) Evening period of operation from 3:00 to 7:00 PM.
 (c) Data was not collected in 2010 for off-peak direction

SANTA CLARA-85

Route 280 to Almaden Expressway

Southbound - P.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 4:00 - 5:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	56	21	21	8
Buses	10	4	1	1
Carpools ⁽¹⁾	1902	577	732	389
Vanpools	5	0	2	0
Hybrid/Single Occ. ⁽²⁾	182	10066	63	3706
Violators	52	—	2	—
TOTAL	2207	10668	821	4104
PERSONS	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	56	21	21	8
Buses	350	140	35	35
Carpools ⁽¹⁾	3900	1238	1515	809
Vanpools	50	0	20	0
Hybrid/Single Occ. ⁽²⁾	182	10066	63	3706
Violators	52	—	2	—
TOTAL	4590	11465	1656	4558
RATES	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.1 persons/veh		2.0 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	2.4 %		0.2 %	

NOTES: (1) Two or more occupants per vehicle.

(2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only

(3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$

(4) HOV lane in operation from 3:00 to 7:00 P.M.

(5) Observations conducted 05/26/10 at Winchester Boulevard I/C

SANTA CLARA-85

Almaden Expressway to Route 280

Northbound - A.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	14	6	9	1
Buses	9	4	5	0
Carpools ⁽¹⁾	1553	234	677	71
Vanpools	3	4	1	3
Hybrid/Single Occ. ⁽²⁾	119	11791	53	4186
Violators	45	—	9	—
TOTAL	1743	12039	745	4261

PERSONS	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	14	6	9	1
Buses	315	140	175	0
Carpools ⁽¹⁾	3160	487	1369	149
Vanpools	30	40	10	30
Hybrid/Single Occ. ⁽²⁾	119	11791	53	4186
Violators	45	—	9	—
TOTAL	3683	12464	1616	4366

RATES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.1 persons/veh		2.2 persons/veh	
Mixed Flow occupancy rate	1.0 persons/veh		1.0 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	2.6 %		1.2 %	

NOTES: (1) Two or more occupants per vehicle.

(2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only

(3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$

(4) HOV lane in operation from 5:00 to 9:00 A.M.

(5) Observations conducted 04/27/10 at Union Avenue I/C

SANTA CLARA-85

Route 280 to Almaden Expressway

Violation History

Southbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Year 2010	-	-	-
	Year 2009	-	-	-
	Year 2008	-	-	-
	Year 2007	-	-	-
	Year 2006	-	-	-
	Year 2005	-	-	-
	Year 2004	-	-	-
	Year 2003	-	-	-
	Wed May 1, 2002	6:00 - 9:00 AM	256	9.0%
	Tue Apr 17, 2001	6:00 - 9:00 AM	341	5.9%
	Tue May 2, 2000	6:00 - 9:00 AM	363	1.7%
P.M. PEAK	Wed May 26, 2010	3:00 - 6:00 PM	2207	2.4%
	Wed Apr 1, 2009	3:00 - 6:00 PM	2998	1.2%
	Tue Apr 22, 2008	3:00 - 6:00 PM	3226	4.0%
	Tue Dec 4, 2007	3:00 - 6:00 PM	3259	1.1%
	Tue May 16, 2006	3:00 - 6:00 PM	2429	0.2%
	Thu Oct 13, 2005	3:00 - 6:00 PM	2311	0.9%
	Wed Oct 6, 2004	3:00 - 6:00 PM	2288	0.5%
	Wed Oct 22, 2003	3:00 - 6:00 PM	2151	2.3%
	Wed Mar 13, 2002	3:00 - 6:00 PM	2866	3.4%
	Thu Apr 5, 2001	3:00 - 6:00 PM	2798	0.5%
	Tue Apr 18, 2000	3:00 - 6:00 PM	3056	0.5%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.
(c) Data was not collected in 2010 for off-peak direction

SANTA CLARA-85

Almaden Expressway to Route 280

Violation History

Northbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Tue Apr 27, 2010	6:00 - 9:00 AM	1743	2.6%
	Wed Mar 25, 2009	6:00 - 9:00 AM	2721	2.5%
	Thu May 1, 2008	6:00 - 9:00 AM	2421	1.1%
	Thu Nov 1, 2007	6:00 - 9:00 AM	2564	2.5%
	Wed Sep 27, 2006	6:00 - 9:00 AM	3298	1.2%
	Thu Oct 6, 2005	6:00 - 9:00 AM	2418	0.4%
	Thu Oct 28, 2004	7:00 - 9:00 AM	1813	0.4%
	Wed Oct 22, 2003	7:00 - 9:00 AM	2012	0.0%
	Wed Mar 27, 2002	6:00 - 9:00 AM	2572	4.6%
	Tues Oct 16, 2001	6:00 - 9:00 AM	3298	6.4%
	Wed Jun 7, 2000	6:00 - 9:00 AM	3555	9.9%
P.M. PEAK	Year 2010	-	-	-
	Year 2009	-	-	-
	Year 2008	-	-	-
	Year 2007	-	-	-
	Year 2006	-	-	-
	Year 2005	-	-	-
	Year 2004	-	-	-
	Year 2003	-	-	-
	Thu Apr 4, 2002	3:00 - 6:00 PM	1068	7.5%
	Tue Jun 12, 2001	3:00 - 6:00 PM	985	8.9%
	Tue Oct 17, 2000	3:00 - 6:00 PM	642	3.6%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.
(c) Data was not collected in 2010 for off-peak direction

SANTA CLARA-85

Almaden Expressway to Route 101 (So. San Jose)

Southbound - P.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	51	16	18	5
Buses	8	11	1	1
Carpools ⁽¹⁾	1667	705	715	167
Vanpools	7	13	1	0
Hybrid/Single Occ. ⁽²⁾	78	9926	43	3574
Violators	28	—	2	—
TOTAL	1839	10671	780	3747
PERSONS	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	51	16	18	5
Buses	280	385	35	35
Carpools ⁽¹⁾	3375	1557	1450	380
Vanpools	70	130	10	0
Hybrid/Single Occ. ⁽²⁾	78	9926	43	3574
Violators	28	—	2	—
TOTAL	3882	12014	1558	3994
RATES	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.1 persons/veh		2.0 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.3 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	1.5 %		0.3 %	

NOTES: (1) Two or more occupants per vehicle.

(2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only

(3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$

(4) HOV lane in operation from 3:00 to 7:00 P.M.

(5) Observations conducted 05/18/10 at Blossom Hill Road I/C

SANTA CLARA-85

Route 101(So. San Jose) to Almaden Expressway

Northbound - A.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	13	22	7	4
Buses	3	5	1	0
Carpools ⁽¹⁾	1479	538	674	234
Vanpools	1	9	1	3
Hybrid/Single Occ. ⁽²⁾	70	9380	38	3314
Violators	6	—	1	—
TOTAL	1572	9954	722	3555

PERSONS	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	13	22	7	4
Buses	105	175	35	0
Carpools ⁽¹⁾	3100	1201	1406	524
Vanpools	10	90	10	30
Hybrid/Single Occ. ⁽²⁾	70	9380	38	3314
Violators	6	—	1	—
TOTAL	3304	10868	1497	3872

RATES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.1 persons/veh		2.1 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	0.4 %		0.1 %	

NOTES: (1) Two or more occupants per vehicle.

(2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only

(3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$

(4) HOV lane in operation from 5:00 to 9:00 A.M.

(5) Observations conducted 04/21/10 at Blossom Hill Road Train Station

SANTA CLARA-85

Almaden Expressway to Route 101 (So. San Jose)

Violation History

Southbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Year 2010	-	-	-
	Year 2009	-	-	-
	Year 2008	-	-	-
	Year 2007	-	-	-
	Year 2006	-	-	-
	Year 2005	-	-	-
	Year 2004	-	-	-
	Year 2003	-	-	-
	Wed Apr 24, 2002	6:00 - 9:00 AM	675	0.3%
	Wed May 2, 2001	6:00 - 9:00 AM	595	1.7%
	Wed May 3, 2000	6:00 - 9:00 AM	635	7.1%
P.M. PEAK	Tue May 18, 2010	3:00 - 6:00 PM	1839	1.5%
	Wed Mar 25, 2009	3:00 - 6:00 PM	2081	0.8%
	Thu May 1, 2008	3:00 - 6:00 PM	2606	1.2%
	Wed Mar 21, 2007	3:00 - 6:00 PM	2005	3.2%
	Thu Apr 20, 2006	3:00 - 6:00 PM	1547	3.4%
	Thu Sep 29, 2005	3:00 - 6:00 PM	1601	0.9%
	Thu Oct 14, 2004	3:00 - 6:00 PM	2050	0.2%
	Thu Jun 5, 2003	3:00 - 6:00 PM	1652	0.6%
	Thu May 2, 2002	3:00 - 6:00 PM	1981	3.8%
	Wed Oct 3, 2001	3:00 - 6:00 PM	2418	0.2%
	Wed Oct 18, 2000	3:00 - 6:00 PM	2354	0.6%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.
(c) Data was not collected in 2010 for off-peak direction

SANTA CLARA-85

Route 101 (So. San Jose) to Almaden Expressway

Violation History

Northbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Wed Apr 21, 2010	6:00 - 9:00 AM	1572	0.4%
	Wed May 13, 2009	6:00 - 9:00 AM	1483	1.6%
	Tue Apr 8, 2008	6:00 - 9:00 AM	1439	1.1%
	Tue May 22, 2007	6:00 - 9:00 AM	1542	0.7%
	Tue May 23, 2006	6:00 - 9:00 AM	1131	3.8%
	Thu Oct 13, 2005	6:00 - 9:00 AM	960	2.4%
	Tue Nov 30, 2004	6:00 - 9:00 AM	1044	0.0%
	Thu Oct 23, 2003	7:00 - 9:00 AM	1035	0.0%
	Tue Mar 12, 2002	6:00 - 9:00 AM	939	2.6%
	Thu Apr 12, 2001	6:00 - 9:00 AM	1678	7.3%
	Thu Oct 5, 2000	7:00 - 9:00 AM	1222	5.2%
P.M. PEAK	Year 2010	-	-	-
	Year 2009	-	-	-
	Year 2008	-	-	-
	Year 2007	-	-	-
	Year 2006	-	-	-
	Year 2005	-	-	-
	Year 2004	-	-	-
	Year 2003	-	-	-
	Wed Apr 24, 2002	3:00 - 6:00 PM	976	5.0%
	Tue Oct 9, 2001	3:00 - 6:00 PM	814	8.6%
	Wed May 3, 2000	3:00 - 6:00 PM	784	5.6%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.
(c) Data was not collected in 2010 for off-peak direction

SANTA CLARA-87

Route 101 I/C to Route 280 I/C

Southbound - P.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	15	20	9	0
Buses	9	8	3	0
Carpools ⁽¹⁾	1253	574	610	72
Vanpools	4	10	2	0
Hybrid/Single Occ. ⁽²⁾	101	10996	65	3970
Violators	56	—	7	—
TOTAL	1438	11608	696	4042
PERSONS	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	15	20	9	0
Buses	315	280	105	0
Carpools ⁽¹⁾	2574	1236	1259	159
Vanpools	40	100	20	0
Hybrid/Single Occ. ⁽²⁾	101	10996	65	3970
Violators	56	—	7	—
TOTAL	3101	12632	1465	4129
RATES	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.2 persons/veh		2.1 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.0 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	3.9 %		1.0 %	

NOTES: (1) Two or more occupants per vehicle.

(2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only

(3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$

(4) HOV lane in operation from 3:00 to 7:00 P.M.

(5) Observations conducted 05/27/10 at Taylor Avenue I/C

SANTA CLARA-87

Route 280 I/C to Route 101 I/C

Northbound - A.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	40	3	19	2
Buses	7	4	6	3
Carpools ⁽¹⁾	1507	142	572	33
Vanpools	13	1	6	0
Hybrid/Single Occ. ⁽²⁾	127	4264	53	1521
Violators	7	—	4	—
TOTAL	1701	4414	660	1559

PERSONS	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	40	3	19	2
Buses	245	140	210	105
Carpools ⁽¹⁾	3082	296	1170	67
Vanpools	130	10	60	0
Hybrid/Single Occ. ⁽²⁾	127	4264	53	1521
Violators	7	—	4	—
TOTAL	3631	4713	1516	1695

RATES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.1 persons/veh		2.3 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.4 persons/veh		1.4 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	0.4 %		0.6 %	

NOTES: (1) Two or more occupants per vehicle.

(2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only

(3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$

(4) HOV lane in operation from 5:00 to 9:00 A.M.

(5) Observations conducted 04/14/10 at Taylor Avenue I/C

SANTA CLARA-87

Rte 101 I/C to Route 280 I/C

Violation History

Southbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Year 2010	-	-	-
	Year 2009	-	-	-
	Year 2008	-	-	-
	Year 2007	-	-	-
P.M. PEAK	Thu May 27, 2010	3:00-6:00 PM	1438	3.9%
	Thu Mar 19, 2009	3:00-6:00 PM	1392	2.5%
	Wed Apr 9, 2008	3:00-6:00 PM	1496	2.9%
	Wed Oct 3, 2007	3:00-6:00 PM	1373	0.8%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.
(c) Data was not collected in 2010 for off-peak direction

SANTA CLARA-87

Route 280 I/C to Route 101 I/C

Violation History

Northbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Wed Apr 14, 2010	6:00 - 9:00 AM	1701	0.4%
	Thu Sep 24, 2009	6:00 - 9:00 AM	1786	0.4%
	Thu Nov 13, 2008	6:00 - 9:00 AM	1256	6.4%
	Tue Sep 25, 2007	6:00 - 9:00 AM	1048	7.6%
	Thu Sep 21, 2006	6:00 - 9:00 AM	532	1.7%
	Tue Nov 8, 2005	6:00 - 9:00 AM	494	3.2%

P.M. PEAK	Year 2010	-	-	-
	Year 2009	-	-	-
	Year 2008	-	-	-
	Year 2007	-	-	-
	Year 2006	-	-	-
	Year 2005	-	-	-

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.
(c) Data was not collected in 2010 for off-peak direction

SANTA CLARA-87

Route 280 I/C to Route 85 I/C

Southbound - P.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	78	30	38	13
Buses	12	17	1	1
Carpools ⁽¹⁾	1388	1229	582	365
Vanpools	5	5	1	1
Hybrid/Single Occ. ⁽²⁾	73	8862	39	3042
Violators	131	—	53	—
TOTAL	1687	10143	714	3422

PERSONS	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	78	30	38	13
Buses	420	595	35	35
Carpools ⁽¹⁾	3175	2684	1307	793
Vanpools	50	50	10	10
Hybrid/Single Occ. ⁽²⁾	73	8862	39	3042
Violators	131	—	53	—
TOTAL	3927	12221	1482	3893

RATES	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.3 persons/veh		2.1 persons/veh	
Mixed Flow occupancy rate	1.2 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.4 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	7.8 %		7.4 %	

NOTES: (1) Two or more occupants per vehicle.

(2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only

(3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$

(4) HOV lane in operation from 3:00 to 7:00 P.M.

(5) Observations conducted 06/03/10 at Capitol Avenue I/C

SANTA CLARA-87

Route 85 I/C to Route 280 I/C

Northbound - A.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	52	9	14	1
Buses	5	2	2	1
Carpools ⁽¹⁾	2095	275	911	74
Vanpools	7	2	3	0
Hybrid/Single Occ. ⁽²⁾	129	10060	48	3743
Violators	44	—	8	—
TOTAL	2332	10348	986	3819

PERSONS	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	52	9	14	1
Buses	175	70	70	35
Carpools ⁽¹⁾	4287	565	1870	150
Vanpools	70	20	30	0
Hybrid/Single Occ. ⁽²⁾	129	10060	48	3743
Violators	44	—	8	—
TOTAL	4757	10724	2040	3929

RATES	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.0 persons/veh		2.1 persons/veh	
Mixed Flow occupancy rate	1.0 persons/veh		1.0 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	1.9 %		0.8 %	

NOTES: (1) Two or more occupants per vehicle.

(2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only

(3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$

(4) HOV lane in operation from 5:00 to 9:00 A.M.

(5) Observations conducted 05/25/10 at Curtner Avenue I/C

SANTA CLARA-87

Route 280 I/C to Jct Rte 85 I/C

Violation History

Southbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Year 2010	-	-	-
	Year 2009	-	-	-
	Year 2008	-	-	-
	Year 2007	-	-	-
P.M. PEAK	Thu Jun 3, 2010	3:00-6:00 PM	1687	7.8%
	Wed May 13, 2009	3:00-6:00 PM	1541	1.5%
	Thu Oct 16, 2008	3:00-6:00 PM	1433	3.8%
	Wed June 13, 2007	3:00-6:00 PM	1326	5.2%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.
(c) Data was not collected in 2010 for off-peak direction

SANTA CLARA-87

Jct Rte 85 to Route 280 I/C

Violation History

Northbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Tue May 25, 2010	6:00 - 9:00 AM	2332	1.9%
	Wed Dec 2, 2009	6:00 - 9:00 AM	3474	1.8%
	Wed Oct 29, 2008	6:00 - 9:00 AM	2838	1.3%
	Thu Oct 11, 2007	6:00 - 9:00 AM	2021	0.7%
P.M. PEAK	Year 2010	-	-	-
	Year 2009	-	-	-
	Year 2008	-	-	-
	Year 2007	-	-	-

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.
(c) Data was not collected in 2010 for off-peak direction

SANTA CLARA-101

SM/SCL County Line to Ellis Street

Southbound - A.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	65	24	26	5
Buses	17	25	7	13
Carpools ⁽¹⁾	1539	415	580	135
Vanpools	13	1	6	0
Hybrid/Single Occ. ⁽²⁾	241	14356	65	5691
Violators	29	—	6	—
TOTAL	1904	14821	690	5844

PERSONS	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	65	24	26	5
Buses	595	875	245	455
Carpools ⁽¹⁾	3164	938	1194	310
Vanpools	130	10	60	0
Hybrid/Single Occ. ⁽²⁾	241	14356	65	5691
Violators	29	—	6	—
TOTAL	4224	16203	1596	6461

RATES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.2 persons/veh		2.3 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	1.5 %		0.9 %	

- NOTES:** (1) Two or more occupants per vehicle.
 (2) Hybrid HOV lane only/Single Occupancy mixed flow lanes only
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$
 (4) HOV lane in operation from 5:00 to 9:00 A.M.
 (5) Observations conducted 06/02/10 at the San Antonio Road I/C

SANTA CLARA-101

SM/SCL County Line to Ellis Street

Southbound - P.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	80	31	37	13
Buses	16	12	3	6
Carpools ⁽¹⁾	3730	624	1345	146
Vanpools	21	2	8	1
Hybrid/Single Occ. ⁽²⁾	254	13582	126	4578
Violators	132	—	22	—
TOTAL	4233	14251	1541	4744
PERSONS	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	80	31	37	13
Buses	560	420	105	210
Carpools ⁽¹⁾	7970	1379	2848	336
Vanpools	210	20	80	10
Hybrid/Single Occ. ⁽²⁾	254	13582	126	4578
Violators	132	—	22	—
TOTAL	9206	15432	3218	5147
RATES	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.2 persons/veh		2.1 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.3 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	3.1 %		1.4 %	

NOTES: (1) Two or more occupants per vehicle.

(2) Hybrid HOV lane only/Single Occupancy mixed flow lanes only

(3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$

(4) HOV lane in operation from 3:00 to 7:00 P.M.

(5) Observations conducted 04/14/10 at the San Antonio Road I/C

SANTA CLARA-101

Ellis Street to SCL/SM County Line

Northbound - A.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	39	63	12	23
Buses	0	23	0	9
Carpools ⁽¹⁾	1846	459	748	173
Vanpools	7	14	5	6
Hybrid/Single Occ. ⁽²⁾	84	14281	30	5084
Violators	10	—	4	—
TOTAL	1986	14840	799	5295

PERSONS	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	39	63	12	23
Buses	0	805	0	315
Carpools ⁽¹⁾	3845	1030	1559	391
Vanpools	70	140	50	60
Hybrid/Single Occ. ⁽²⁾	84	14281	30	5084
Violators	10	—	4	—
TOTAL	4048	16319	1655	5873

RATES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.0 persons/veh		2.1 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	0.5 %		0.5 %	

NOTES: (1) Two or more occupants per vehicle.

(2) Hybrid HOV lane only/Single Occupancy mixed flow lanes only

(3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$

(4) HOV lane in operation from 5:00 to 9:00 A.M.

(5) Observations conducted 05/05/10 at San Antonio Road I/C

SANTA CLARA-101

Ellis Street to SCL/SM County Line

Northbound - P.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 4:00 - 5:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	70	36	18	6
Buses	23	26	7	2
Carpools ⁽¹⁾	1672	579	561	217
Vanpools	2	1	0	1
Hybrid/Single Occ. ⁽²⁾	124	16781	42	5914
Violators	11	—	2	—
TOTAL	1902	17423	630	6140

PERSONS	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 4:00 - 5:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	70	36	18	6
Buses	805	910	245	70
Carpools ⁽¹⁾	3423	1311	1150	496
Vanpools	20	10	0	10
Hybrid/Single Occ. ⁽²⁾	11	16781	42	5914
Violators	124	—	2	—
TOTAL	4453	19048	1457	6496

RATES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 4:00 - 5:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.3 persons/veh		2.3 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	0.6 %		0.3 %	

- NOTES:** (1) Two or more occupants per vehicle.
 (2) Hybrid HOV lane only/Single Occupancy mixed flow lanes only
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$
 (4) HOV lane in operation from 3:00 to 7:00 P.M.
 (5) Observations conducted 05/12/10 at the San Antonio Road I/C

SANTA CLARA-101

SM/SCL County Line to Ellis Street

Violation History

Southbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Wed Jun 2, 2010	6:00 - 9:00 AM	1904	1.5%
	Tue Apr 21, 2009	6:00 - 9:00 AM	2073	4.0%
	Thu Jun 5, 2008	6:00 - 9:00 AM	1747	0.7%
	Wed Nov 14, 2007	6:00 - 9:00 AM	1702	1.9%
	Tue Dec 5, 2006	6:00 - 9:00 AM	1352	0.7%
	Thu Sep 15, 2005	6:00 - 9:00 AM	1654	0.5%
	Wed Nov 17, 2004	6:00 - 9:00 AM	1762	0.3%
	Thu Oct 30, 2003	6:00 - 9:00 AM	1970	6.6%
	Wed May 15, 2002	6:00 - 9:00 AM	1949	6.6%
	Wed Mar 21, 2001	6:00 - 9:00 AM	2710	0.8%
	Wed Sep 13, 2000	6:00 - 9:00 AM	2823	10.5%
P.M. PEAK	Wed Apr 14, 2010	3:00 - 6:00 PM	4233	3.1%
	Wed Apr 22, 2009	3:00 - 6:00 PM	2957	0.5%
	Tue Nov 18, 2008	3:00 - 6:00 PM	3698	3.1%
	Wed Apr 4, 2007	3:00 - 6:00 PM	2763	0.3%
	Wed Apr 26, 2006	3:00 - 6:00 PM	2509	3.1%
	Wed Mar 30, 2005	3:00 - 6:00 PM	3001	3.6%
	Wed Oct 27, 2004	3:00 - 6:00 PM	2420	0.3%
	Tue Oct 28, 2003	3:00 - 5:45 PM	2608	1.4%
	Tue May 14, 2002	3:00 - 6:00 PM	2119	0.7%
	Wed Oct 24, 2001	3:00 - 6:00 PM	2935	4.4%
	Thu Mar 30, 2000	3:00 - 6:00 PM	3199	3.4%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.

SANTA CLARA-101

Ellis Street to SM/SCL County Line

Violation History

Northbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Wed May 5, 2010	6:00 - 9:00 AM	1986	0.5%
	Thu Dec 3, 2009	6:00 - 9:00 AM	2264	0.3%
	Tue Sep 30, 2008	6:00 - 9:00 AM	2278	0.2%
	Tue Nov 6, 2007	6:00 - 9:00 AM	2301	0.0%
	Thu Jun 1, 2006	6:00 - 9:00 AM	2581	12.1%
	Thu Sep 22, 2005	6:00 - 9:00 AM	2494	4.5%
	Tue Nov 2, 2004	6:00 - 9:00 AM	1641	0.3%
	Thu May 22, 2003	6:00 - 9:00 AM	2132	5.8%
	Wed Sept 25, 2002	6:45 - 9:00 AM	1479	2.4%
	Thu Oct 4, 2001	6:00 - 9:00 AM	1942	6.0%
	Thu May 18, 2000	6:00 - 9:00 AM	2047	5.1%
P.M. PEAK	Wed May 12, 2010	3:00 - 6:00 PM	1902	0.6%
	Thu Oct 8, 2009	3:00 - 6:00 PM	2373	1.0%
	Wed Dec 17, 2008	3:00 - 6:00 PM	2915	0.8%
	Tue Sep 11, 2007	3:00 - 6:00 PM	2700	0.4%
	Tue Dec 5, 2006	3:00 - 6:00 PM	2090	0.1%
	Wed Oct 5, 2005	3:00 - 6:00 PM	1656	0.8%
	Thu Dec 2, 2004	3:00 - 5:00 PM	1369	2.8%
	Tue Jun 3, 2003	3:00 - 6:00 PM	2635	7.2%
	Thu Jun 6, 2002	3:00 - 6:00 PM	3064	2.1%
	Wed Oct 17, 2001	3:00 - 6:00 PM	2523	3.2%
	Tue Nov 7, 2000	3:00 - 6:00 PM	3032	4.6%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.

SANTA CLARA-101

Ellis Street to Guadalupe Parkway

Southbound - P.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 3:00 - 4:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	123	18	33	1
Buses	15	8	3	2
Carpools ⁽¹⁾	3065	609	1065	195
Vanpools	49	6	16	2
Hybrid/Single Occ. ⁽²⁾	134	12146	44	4267
Violators	21	—	1	—
TOTAL	3407	12787	1162	4467
PERSONS	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	123	18	33	1
Buses	525	280	105	70
Carpools ⁽¹⁾	6342	1298	2202	415
Vanpools	490	60	160	20
Hybrid/Single Occ. ⁽²⁾	134	12146	44	4267
Violators	21	—	1	—
TOTAL	7635	13802	2545	4773
RATES	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.2 persons/veh		2.2 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.3 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	0.6 %		0.1 %	

- NOTES:** (1) Two or more occupants per vehicle.
(2) Hybrid HOV lane only/Single Occupancy mixed flow lanes only.
(3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$
(4) HOV lane in operation from 3:00 to 7:00 P.M.
(5) Observations conducted 05/13/10 at the San Tomas Expressway I/C

SANTA CLARA-101

Guadalupe Parkway to Ellis Street

Northbound - A.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	33	46	9	10
Buses	5	3	2	0
Carpools ⁽¹⁾	1468	637	563	242
Vanpools	15	10	10	5
Hybrid/Single Occ. ⁽²⁾	96	16401	27	6052
Violators	15	—	3	—
TOTAL	1632	17097	614	6309
PERSONS	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	33	46	9	10
Buses	175	105	70	0
Carpools ⁽¹⁾	2959	1472	1134	559
Vanpools	150	100	100	50
Hybrid/Single Occ. ⁽²⁾	96	16401	27	6052
Violators	15	—	3	—
TOTAL	3428	18124	1343	6671
RATES	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.1 persons/veh		2.2 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	0.9 %		0.5 %	

- NOTES:** (1) Two or more occupants per vehicle.
(2) Hybrid HOV lane only/Single Occupancy mixed flow lanes only
(3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$
(4) HOV lane in operation from 5:00 to 9:00 A.M.
(5) Observations conducted 05/26/10 at the Fair Oaks Avenue I/C

SANTA CLARA-101

Ellis Street to Guadalupe Parkway

Violation History

Southbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Year 2010	-	-	-
	Year 2009	-	-	-
	Year 2008	-	-	-
	Year 2007	-	-	-
	Year 2006	-	-	-
	Year 2005	-	-	-
	Year 2004	-	-	-
	Year 2003	-	-	-
	Tue Dec 3, 2002	6:00 - 9:00 AM	668	2.2%
	Tue Jun 5, 2001	6:00 - 9:00 AM	765	2.1%
	Thu Apr 20, 2000	6:00 - 9:00 AM	916	3.8%
P.M. PEAK	Thu May 13, 2010	3:00 - 6:00 PM	3407	0.6%
	Wed Mar 11, 2009	4:00 - 6:00 PM	2117	0.2%
	Thu Oct 9, 2008	3:00 - 6:00 PM	2779	0.2%
	Thu Nov 15, 2007	3:00 - 6:00 PM	3266	0.2%
	Tue Apr 18, 2006	3:00 - 6:00 PM	2779	0.3%
	Wed Apr 27, 2005	3:00 - 6:00 PM	2964	0.3%
	Tue Nov 16, 2004	3:00 - 5:30 PM	2190	0.4%
	Thu May 29, 2003	3:00 - 6:00 PM	3454	3.6%
	Thu Apr 11, 2002	3:00 - 6:00 PM	2912	1.2%
	Thu Mar 29, 2001	3:00 - 6:00 PM	3903	3.1%
	Wed Nov 15, 2000	3:00 - 5:30 PM	3077	2.7%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.

(b) Evening period of operation from 3:00 to 7:00 PM.

(c) Data was not collected in 2010 for off-peak direction

SANTA CLARA-101

Guadalupe Parkway to Ellis Street

Violation History

Northbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Wed May 26, 2010	6:00 - 9:00 AM	1632	0.9%
	Thu Apr 2, 2009	6:00 - 9:00 AM	2218	2.8%
	Thu Dec 11, 2008	6:00 - 9:00 AM	1695	3.8%
	Thu Nov 15, 2007	6:00 - 9:00 AM	2371	0.9%
	Tue Nov 14, 2006	6:00 - 9:00 AM	1811	0.7%
	Wed Oct 26, 2005	7:00 - 9:00 AM	1221	0.4%
	Tue Nov 16, 2004	6:00 - 9:00 AM	1799	0.7%
	Wed May 7, 2003	6:00 - 9:00 AM	2142	0.6%
	Thu Apr 4, 2002	6:00 - 9:00 AM	1646	7.5%
	Wed Sep 26, 2001	6:00 - 9:00 AM	1607	0.8%
	Tue Apr 4, 2000	6:00 - 9:00 AM	1527	2.8%
P.M. PEAK	Year 2010	-	-	-
	Year 2009	-	-	-
	Year 2008	-	-	-
	Year 2007	-	-	-
	Year 2006	-	-	-
	Year 2005	-	-	-
	Year 2004	-	-	-
	Year 2003	-	-	-
	Wed May 22, 2002	3:00 - 6:00 PM	1487	3.8%
	Wed May 10, 2000	3:00 - 6:00 PM	1684	0.3%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.
(c) Data was not collected in 2010 for off-peak direction

SANTA CLARA-101

Guadalupe Parkway to Route 280/680

Southbound - P.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	88	25	39	11
Buses	13	131	4	33
Carpools ⁽¹⁾	2186	1185	719	325
Vanpools	6	15	2	0
Hybrid/Single Occ. ⁽²⁾	80	14916	37	5122
Violators	14	—	2	—
TOTAL	2387	16272	803	5491
PERSONS	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	88	25	39	11
Buses	455	4585	140	1155
Carpools ⁽¹⁾	4511	2586	1475	720
Vanpools	60	150	20	0
Hybrid/Single Occ. ⁽²⁾	80	14916	37	5122
Violators	14	—	2	—
TOTAL	5208	22262	1713	7008
RATES	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.2 persons/veh		2.1 persons/veh	
Mixed Flow occupancy rate	1.4 persons/veh		1.3 persons/veh	
Overall occupancy (incl. buses)	1.5 persons/veh		1.4 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	0.6 %		0.2 %	

NOTES: (1) Two or more occupants per vehicle.

(2) Hybrid HOV lane only/Single Occupancy mixed flow lanes only

(3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$

(4) HOV lane in operation from 3:00 to 7:00 P.M.

(5) Observations conducted 03/18/10 at the McKee Road I/C

SANTA CLARA-101

Route 280/680 to Guadalupe Parkway

Northbound - A.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	125	20	49	6
Buses	6	20	3	13
Carpools ⁽¹⁾	3146	461	1347	157
Vanpools	9	4	4	0
Hybrid/Single Occ. ⁽²⁾	118	15025	46	5224
Violators	69	—	27	—
TOTAL	3473	15530	1476	5400

PERSONS	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	125	20	49	6
Buses	210	700	105	455
Carpools ⁽¹⁾	6377	955	2731	328
Vanpools	90	40	40	0
Hybrid/Single Occ. ⁽²⁾	118	15025	46	5224
Violators	69	—	27	—
TOTAL	6989	16740	2998	6013

RATES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.0 persons/veh		2.0 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	2.0 %		1.8 %	

- NOTES:** (1) Two or more occupants per vehicle.
 (2) Hybrid HOV lane only/Single Occupancy mixed flow lanes only
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$
 (4) HOV lane in operation from 5:00 to 9:00 A.M.
 (5) Observations conducted 05/13/10 at the McKee Road I/C

SANTA CLARA-101

Guadalupe Parkway to Route 280/680 I/C

Violation History

Southbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Year 2010	-	-	-
	Year 2009	-	-	-
	Year 2008	-	-	-
	Year 2007	-	-	-
	Year 2006	-	-	-
	Year 2005	-	-	-
	Year 2004	-	-	-
	Year 2003	-	-	-
	Thu May 30, 2002	6:00 - 9:00 AM	339	3.5%
	Thu Oct 18, 2001	6:00 - 9:00 AM	495	3.0%
	Thu Jun 8, 2000	6:00 - 9:00 AM	485	11.8%
P.M. PEAK	Thu Mar 18, 2010	3:00 - 6:00 PM	2387	0.6%
	Wed Mar 18, 2009	3:00 - 6:00 PM	2659	1.1%
	Thu Nov 6, 2008	3:00 - 6:00 PM	3464	1.7%
	Thu Dec 13, 2007	3:00 - 6:00 PM	3098	0.4%
	Tue May 9, 2006	3:00 - 6:00 PM	2216	0.1%
	Wed Sep 21, 2005	3:00 - 6:00 PM	2452	0.2%
	Tue Nov 9, 2004	3:00 - 5:30 PM	1947	0.7%
	Thu Apr 3, 2003	3:00 - 6:00 PM	1860	0.5%
	Thu Jun 13, 2002	3:00 - 6:00 PM	2342	1.3%
	Tue Mar 27, 2001	3:00 - 6:00 PM	2840	2.6%
	Thu May 11, 2000	3:00 - 6:00 PM	3049	1.7%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.
(c) Data was not collected in 2010 for off-peak direction

SANTA CLARA-101

Route 280/680 I/C to Guadalupe Parkway

Violation History

Northbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Thu May 13, 2010	6:00 - 9:00 AM	3473	2.0%
	Thu Oct 22, 2009	6:00 - 9:00 AM	2947	0.3%
	Tue Oct 7, 2008	6:00 - 9:00 AM	3651	0.4%
	Tue Dec 11, 2007	6:00 - 9:00 AM	3914	0.1%
	Tue May 16, 2006	6:00 - 9:00 AM	3374	3.8%
	Wed Mar 30, 2005	6:00 - 9:00 AM	4026	6.8%
	Thu Dec 2, 2004	6:00 - 9:00 AM	3561	0.2%
	Thu Jun 12, 2003	6:00 - 9:00 AM	3794	2.6%
	Thu Apr 11, 2002	6:30 - 9:00 AM	3438	2.7%
	Thu May 11, 2000	6:00 - 9:00 AM	4839	2.4%
P.M. PEAK	Year 2010	-	-	-
	Year 2009	-	-	-
	Year 2008	-	-	-
	Year 2007	-	-	-
	Year 2006	-	-	-
	Year 2005	-	-	-
	Year 2004	-	-	-
	Year 2003	-	-	-
	Thu May 23, 2002	3:00 - 6:00 PM	1264	1.6%
	Thu Apr 27, 2000	3:00 - 6:00 PM	1318	3.7%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.
(c) Data was not collected in 2010 for off-peak direction

SANTA CLARA-101

Route 280/680 to Bernal Road

Southbound - P.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	26	12	12	3
Buses	6	4	2	0
Carpools ⁽¹⁾	1617	1384	511	458
Vanpools	4	3	0	0
Hybrid/Single Occ. ⁽²⁾	62	11524	33	4159
Violators	84	—	15	—
TOTAL	1799	12927	573	4620
PERSONS	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	26	12	12	3
Buses	210	140	70	0
Carpools ⁽¹⁾	3352	2901	1057	952
Vanpools	40	30	0	0
Hybrid/Single Occ. ⁽²⁾	62	11524	33	4159
Violators	84	—	15	—
TOTAL	3774	14607	1187	5114
RATES	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.1 persons/veh		2.1 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	4.7 %		2.6 %	

NOTES: (1) Two or more occupants per vehicle.

(2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only

(3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$

(4) HOV lane in operation from 3:00 to 7:00 P.M.

(5) Observations conducted 04/29/10 at the Hellyer Avenue I/C

SANTA CLARA-101

Bernal Road to Route 280/680

Northbound - A.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	55	30	22	10
Buses	10	6	2	0
Carpools ⁽¹⁾	1680	423	691	131
Vanpools	1	1	0	1
Hybrid/Single Occ. ⁽²⁾	139	13294	55	4563
Violators	14	—	1	—
TOTAL	1899	13754	771	4705

PERSONS	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	55	30	22	10
Buses	350	210	70	0
Carpools ⁽¹⁾	3477	954	1444	303
Vanpools	10	10	0	10
Hybrid/Single Occ. ⁽²⁾	139	13294	55	4563
Violators	14	—	1	—
TOTAL	4045	14498	1592	4886

RATES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.1 persons/veh		2.1 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.0 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	0.7 %		0.1 %	

- NOTES:** (1) Two or more occupants per vehicle.
 (2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$
 (4) HOV lane in operation from 5:00 to 9:00 A.M.
 (5) Observations conducted 05/11/10 at the Hellyer Avenue I/C

SANTA CLARA-101

Route 280/680 I/C to Bernal Road

Violation History

Southbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Year 2010	-	-	-
	Year 2009	-	-	-
	Year 2008	-	-	-
	Year 2007	-	-	-
	Year 2006	-	-	-
	Year 2005	-	-	-
	Year 2004	-	-	-
	Year 2003	-	-	-
	Thu Jun 6, 2002	6:00 - 9:00 AM	730	5.6%
	Thu Apr 19, 2001	6:00 - 9:00 AM	746	5.4%
	Wed Oct 4, 2000	7:00 - 9:00 AM	413	5.6%
P.M. PEAK	Thu Apr 29, 2010	3:00 - 6:00 PM	1799	4.7%
	Tue May 26, 2009	3:00 - 6:00 PM	1953	1.1%
	Thu May 29, 2008	3:00 - 6:00 PM	2088	0.6%
	Tue May 8, 2007	3:00 - 6:00 PM	1881	1.2%
	Wed May 3, 2006	3:00 - 6:00 PM	2127	3.3%
	Thu Mar 10, 2005	3:00 - 6:00 PM	2225	0.6%
	Tue Nov 23, 2004	3:00 - 5:30 PM	1747	0.3%
	Thu May 1, 2003	3:00 - 6:00 PM	2204	1.6%
	Tue Mar 19, 2002	3:00 - 6:00 PM	1496	2.0%
	Wed May 16, 2001	3:00 - 6:00 PM	1732	0.8%
	Tue Sep 19, 2000	3:00 - 6:00 PM	1898	0.7%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.
(c) Data was not collected in 2010 for off-peak direction

SANTA CLARA-101

Bernal Road to Route 280/680 I/C

Violation History

Northbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Tue May 11, 2010	6:00 - 9:00 AM	1899	0.7%
	Wed Apr 29, 2009	6:00 - 9:00 AM	1610	0.5%
	Wed Oct 15, 2008	6:00 - 9:00 AM	1658	0.4%
	Tue Apr 10, 2007	6:00 - 9:00 AM	1575	0.6%
	Tue Apr 18, 2006	6:00 - 9:00 AM	2019	2.2%
	Tue Apr 19, 2005	6:00 - 9:00 AM	2366	0.8%
	Tue Dec 14, 2004	6:00 - 9:00 AM	1668	1.3%
	Tue Jun 3, 2003	6:00 - 9:00 AM	2620	1.0%
	Thu May 16, 2002	6:00 - 9:00 AM	1859	2.7%
	Tue Apr 3, 2001	6:00 - 9:00 AM	2258	3.5%
	Thu Nov 30, 2000	7:00 - 9:00 AM	1503	2.3%
P.M. PEAK	Year 2010	-	-	-
	Year 2009	-	-	-
	Year 2008	-	-	-
	Year 2007	-	-	-
	Year 2006	-	-	-
	Year 2005	-	-	-
	Year 2004	-	-	-
	Year 2003	-	-	-
	Wed Mar 27, 2002	3:00 - 6:00 PM	1156	3.1%
	Tue May 15, 2001	3:00 - 6:00 PM	1155	5.4%
	Wed Apr 5, 2000	3:00 - 6:00 PM	1169	5.9%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.
(c) Data was not collected in 2010 for off-peak direction

SANTA CLARA-101

Bernal Road to Cochrane Road

Southbound - P.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 4:00 - 5:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	35	26	9	1
Buses	1	8	0	0
Carpools ⁽¹⁾	2275	465	770	211
Vanpools	5	1	2	0
Hybrid/Single Occ. ⁽²⁾	240	10042	84	3661
Violators	4	—	1	—
TOTAL	2560	10542	866	3873
PERSONS	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	35	26	9	1
Buses	35	280	0	0
Carpools ⁽¹⁾	4619	987	1563	444
Vanpools	50	10	20	0
Hybrid/Single Occ. ⁽²⁾	240	10042	84	3661
Violators	4	—	1	—
TOTAL	4983	11345	1677	4106
RATES	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	1.9 persons/veh		1.9 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	0.2 %		0.1 %	

NOTES: (1) Two or more occupants per vehicle.

(2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only

(3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$

(4) HOV lane in operation from 3:00 to 7:00 P.M.

(5) Observations conducted 05/05/10 at Coyote Creek Golf Drive I/C

SANTA CLARA-101

Cochrane Road to Bernal Road

Northbound - A.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	80	42	35	9
Buses	9	8	3	6
Carpools ⁽¹⁾	1875	496	756	163
Vanpools	2	28	1	8
Hybrid/Single Occ. ⁽²⁾	115	14336	35	5312
Violators	29	—	4	—
TOTAL	2110	14910	834	5498

PERSONS	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	80	42	35	9
Buses	315	280	105	210
Carpools ⁽¹⁾	3855	1087	1545	369
Vanpools	20	280	10	80
Hybrid/Single Occ. ⁽²⁾	115	14336	35	5312
Violators	29	—	4	—
TOTAL	4414	16025	1734	5980

RATES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.1 persons/veh		2.1 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	1.4 %		0.5 %	

- NOTES:** (1) Two or more occupants per vehicle.
 (2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$
 (4) HOV lane in operation from 5:00 to 9:00 A.M.
 (5) Observations conducted 06/09/10 at Coyote Creek Golf Drive I/C

SANTA CLARA-101

Bernal Road to Cochrane Road

Violation History

Southbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Year 2010	-	-	-
	Year 2009	-	-	-
	Year 2008	-	-	-
	Year 2007	-	-	-
	Year 2006	-	-	-
	Year 2005	-	-	-
	Year 2004	-	-	-
	Year 2003	-	-	-
P.M. PEAK	Sat May 15, 2010	3:00 - 6:00 PM	2560	0.2%
	Thu Jun 11, 2009	3:00 - 6:00 PM	2388	1.3%
	Wed Oct 29, 2008	3:00 - 6:00 PM	2357	0.4%
	Tue May 15, 2007	3:00 - 6:00 PM	2177	0.4%
	Wed Apr 19, 2006	3:00 - 6:00 PM	1652	1.2%
	Tue Sep 13, 2005	3:00 - 6:00 PM	2102	0.1%
	Wed Nov 3, 2004	3:00 - 5:30 PM	1493	1.5%
	Wed May 21, 2003	3:00 - 6:00 PM	1775	1.1%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.
(c) Data was not collected in 2010 for off-peak period

SANTA CLARA-101

Cochrane Road to Bernal Road

Violation History

Northbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Wed Jun 9, 2010	6:00 - 9:00 AM	2110	1.4%
	Thu Dec 10, 2009	6:00 - 9:00 AM	2058	0.7%
	Wed Jun 4, 2008	6:00 - 9:00 AM	2394	1.0%
	Thu Dec 6, 2007	6:00 - 9:00 AM	2099	0.3%
	Tue Dec 19, 2006	6:00 - 9:00 AM	2799	1.0%
	Wed Dec 14, 2005	6:00 - 9:00 AM	1827	1.4%
	Tue Nov 9, 2004	6:00 - 9:00 AM	2120	0.2%
	Tue Oct 28, 2003	6:00 - 9:00 AM	1720	0.0%
P.M. PEAK	Year 2010	-	-	-
	Year 2009	-	-	-
	Year 2008	-	-	-
	Year 2007	-	-	-
	Year 2006	-	-	-
	Year 2005	-	-	-
	Year 2004	-	-	-
	Year 2003	-	-	-

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.
(c) Data was not collected in 2010 for off-peak direction

SANTA CLARA-237

Route 880/237 I/C to Mathilda Avenue

Westbound - A.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	79	14	27	4
Buses	11	21	5	1
Carpools ⁽¹⁾	1777	65	752	21
Vanpools	2	7	1	2
Hybrid/Single Occ. ⁽²⁾	123	12001	75	4188
Violators	27	—	23	—
TOTAL	2019	12108	883	4216
PERSONS	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	79	14	27	4
Buses	385	735	175	35
Carpools ⁽¹⁾	3634	134	1525	45
Vanpools	20	70	10	20
Hybrid/Single Occ. ⁽²⁾	123	12001	75	4188
Violators	27	—	23	—
TOTAL	4268	12954	1835	4292
RATES	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.1 persons/veh		2.1 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.0 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	1.3 %		2.6 %	

NOTES: (1) Two or more occupants per vehicle.

(2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only

(3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$

(4) HOV lane in operation from 5:00 to 9:00 A.M.

(5) Observations conducted 06/10/10 at the Zanker Road I/C

SANTA CLARA-237

Route 880/237 I/C to Mathilda Avenue

Westbound - P.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	12	13	10	5
Buses	2	16	2	3
Carpools ⁽¹⁾	547	496	270	111
Vanpools	0	0	0	0
Hybrid/Single Occ. ⁽²⁾	65	9624	46	3860
Violators	0	—	0	—
TOTAL	626	10149	328	3979
PERSONS	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	12	13	10	5
Buses	70	560	70	105
Carpools ⁽¹⁾	1152	1034	571	235
Vanpools	0	0	0	0
Hybrid/Single Occ. ⁽²⁾	65	9624	46	3860
Violators	0	—	0	—
TOTAL	1299	11231	697	4205
RATES	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.1 persons/veh		2.1 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.1 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	0.0 %		0.0 %	

NOTES: (1) Two or more occupants per vehicle.

(2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only

(3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$

(4) HOV lane in operation from 3:00 to 7:00 P.M.

(5) Observations conducted 03/09/10 at the Zanker Road I/C

SANTA CLARA-237

Mathilda Avenue to Route 880/237

Eastbound - P.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 3:00 - 4:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	62	13	11	7
Buses	14	12	2	8
Carpools ⁽¹⁾	1677	201	534	133
Vanpools	5	0	0	0
Hybrid/Single Occ. ⁽²⁾	176	10067	37	3552
Violators	40	—	36	—
TOTAL	1974	10293	620	3700

PERSONS	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 3:00 - 4:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	62	13	11	7
Buses	490	420	70	280
Carpools ⁽¹⁾	3434	430	1093	283
Vanpools	50	0	0	0
Hybrid/Single Occ. ⁽²⁾	176	10067	37	3552
Violators	40	—	36	—
TOTAL	4252	10930	1247	4122

RATES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 3:00 - 4:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.2 persons/veh		2.0 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	2.0 %		5.8 %	

- NOTES:** (1) Two or more occupants per vehicle.
 (2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$
 (4) HOV lane in operation from 3:00 to 7:00 P.M.
 (5) Observations conducted 03/10/10 at the Zanker Road I/C

SANTA CLARA-237

Route 880/237 I/C to Mathilda Avenue

Violation History

Westbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Thu Jun 10, 2010	6:00 - 9:00 AM	2019	1.3%
	Tue Sep 22, 2009	6:00 - 9:00 AM	2383	2.9%
	Wed Dec 17, 2008	6:00 - 9:00 AM	2046	0.6%
	Tue Sep 18, 2007	6:00 - 9:00 AM	2092	0.1%
	Wed Apr 26, 2006	6:00 - 9:00 AM	1631	0.3%
	Wed Nov 2, 2005	6:00 - 9:00 AM	1666	3.1%
	Thu Nov 18, 2004	6:00 - 9:00 AM	1407	0.9%
	Thu May 29, 2003	6:00 - 9:00 AM	1644	0.0%
	Thu May 2, 2002	6:00 - 9:00 AM	1577	3.7%
	Thu May 3, 2001	6:00 - 9:00 AM	1916	5.3%
	Wed Nov 15, 2000	6:00 - 9:00 AM	2055	2.7%
P.M. PEAK	Tue Mar 9, 2010	3:00 - 6:00 PM	626	0.0%
	Thu Oct 1, 2009	3:00 - 6:00 PM	1099	1.2%
	Wed May 28, 2008	3:00 - 6:00 PM	1072	0.6%
	Tue Jun 12, 2007	3:00 - 6:00 PM	1641	8.2%
	Tue Mar 28, 2006	3:00 - 6:00 PM	1008	4.3%
	Tue Oct 25, 2005	3:00 - 6:00 PM	908	2.1%
	Thu Dec 9, 2004	3:00 - 5:15 PM	493	10.8%
	Thu Oct 9, 2003	3:00 - 6:00 PM	698	5.6%
	Wed May 15, 2002	3:00 - 6:00 PM	773	2.2%
	Wed May 30, 2001	3:00 - 6:00 PM	1102	3.1%
	Wed Sep 13, 2000	3:00 - 6:00 PM	1155	2.5%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.

SANTA CLARA-237

Mathilda Avenue to Route 880/237 I/C

Violation History

Eastbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Year 2010	-	-	-
	Year 2009	-	-	-
	Year 2008	-	-	-
	Thu Nov 29, 2007	6:00 - 9:00 AM	741	0.4%
	Tue May 9, 2006	6:00 - 9:00 AM	710	11.1%
	Year 2005	-	-	-
	Year 2004	-	-	-
	Year 2003	-	-	-
	Thu Oct 31, 2002	7:00 - 9:00 AM	561	12.1%
	Thu Mar 29, 2001	6:00 - 9:00 AM	759	15.0%
	Thu May 25, 2000	6:00 - 9:00 AM	536	5.8%
P.M. PEAK	Wed Mar 10, 2010	3:00 - 6:00 PM	1974	2.0%
	Wed Jun 3, 2009	3:00 - 6:00 PM	1775	1.4%
	Wed Apr 2, 2008	3:00 - 6:00 PM	1670	1.0%
	Wed May 23, 2007	3:00 - 6:00 PM	2433	0.1%
	Thu May 11, 2006	3:00 - 6:00 PM	1671	4.2%
	Thu Oct 6, 2005	3:00 - 6:00 PM	1746	13.3%
	Wed Dec 1, 2004	3:00 - 5:00 PM	1324	0.8%
	Tue Oct 14, 2003	3:00 - 6:00 PM	1296	0.9%
	Wed May 1, 2002	3:00 - 6:00 PM	1396	1.9%
	Thu May 3, 2001	3:00 - 6:00 PM	1255	2.1%
	Tue Mar 21, 2000	4:00 - 7:00 PM	2181	0.4%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.
(c) Data was not collected in 2010 for off-peak direction

SANTA CLARA-280

Magdalena Avenue to Leland Avenue

Southbound - P.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	8	14	5	4
Buses	3	2	0	1
Carpools ⁽¹⁾	1121	856	512	175
Vanpools	1	1	0	1
Hybrid/Single Occ. ⁽²⁾	104	13410	67	4768
Violators	0	—	0	—
TOTAL	1237	14283	584	4949
PERSONS	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	8	14	5	4
Buses	105	70	0	35
Carpools ⁽¹⁾	2457	1829	1081	380
Vanpools	10	10	0	10
Hybrid/Single Occ. ⁽²⁾	104	13410	67	4768
Violators	0	—	0	—
TOTAL	2684	15333	1153	5197
RATES	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.2 persons/veh		2.0 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.1 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	0.0 %		0.0 %	

NOTES: (1) Two or more occupants per vehicle.

(2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only

(3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$

(4) HOV lane in operation from 3:00 to 7:00 P.M.

(5) Observations conducted 04/20/10 at the Wolfe Road I/C

SANTA CLARA-280

Leland Avenue to Magdalena Avenue

Northbound - A.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	43	24	15	7
Buses	13	34	3	10
Carpools ⁽¹⁾	1172	556	394	185
Vanpools	1	25	0	11
Hybrid/Single Occ. ⁽²⁾	69	14431	23	5489
Violators	9	—	2	—
TOTAL	1307	15070	437	5702

PERSONS	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	43	24	15	7
Buses	455	1190	105	350
Carpools ⁽¹⁾	2411	1244	831	409
Vanpools	10	250	0	110
Hybrid/Single Occ. ⁽²⁾	69	14431	23	5489
Violators	9	—	2	—
TOTAL	2997	17139	976	6365

RATES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.3 persons/veh		2.2 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	0.7 %		0.5 %	

- NOTES:** (1) Two or more occupants per vehicle.
 (2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$
 (4) HOV lane in operation from 5:00 to 9:00 A.M.
 (5) Observations conducted 06/08/10 at the Wolfe Road I/C

SANTA CLARA-280

Magdalena Avenue to Leland Avenue

Violation History

Southbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Year 2010	-	-	-
	Year 2009	-	-	-
	Year 2008	-	-	-
	Year 2007	-	-	-
	Year 2006	-	-	-
	Year 2005	-	-	-
	Year 2004	-	-	-
	Year 2003	-	-	-
	Thu Apr 18, 2002	6:30 - 9:00 AM	372	4.6%
	Thu Apr 5, 2001	6:00 - 9:00 AM	524	2.7%
	Thu Apr 13, 2000	6:00 - 9:00 AM	474	9.3%

P.M. PEAK	Tue Apr 20, 2010	3:00 - 6:00 PM	1237	0.0%
	Thu Nov 12, 2009	3:00 - 6:00 PM	2309	0.5%
	Thu Dec 4, 2008	3:00 - 6:00 PM	2606	2.0%
	Tue Apr 10, 2007	3:00 - 6:00 PM	2404	0.0%
	Thu Apr 27, 2006	3:00 - 6:00 PM	1569	3.5%
	Tue Dec 13, 2005	3:00 - 6:00 PM	2469	0.0%
	Tue Nov 2, 2004	3:00 - 5:30 PM	1817	2.3%
	Thu Jun 12, 2003	3:00 - 5:30 PM	1756	1.0%
	Thu Sep 19, 2002	3:00 - 6:00 PM	1933	0.6%
	Thu Oct 11, 2001	3:00 - 6:00 PM	2221	1.0%
	Wed Oct 11, 2000	3:00 - 6:00 PM	2325	5.0%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.
(c) Data was not collected in 2010 for off-peak direction

SANTA CLARA-280

Leland Avenue to Magdalena Avenue

Violation History

Northbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Tue Jun 8, 2010	6:00 - 9:00 AM	1307	0.7%
	Thu Apr 23, 2009	6:00 - 9:00 AM	1559	0.5%
	Thu May 29, 2008	6:00 - 9:00 AM	1772	0.9%
	Thu Dec 5, 2007	6:00 - 9:00 AM	2105	0.7%
	Thu Dec 14, 2006	6:00 - 9:00 AM	1843	0.1%
	Tue Mar 8, 2005	6:00 - 9:00 AM	1602	0.8%
	Thu Oct 7, 2004	6:00 - 9:00 AM	2213	2.4%
	Thu Jun 5, 2003	6:00 - 9:00 AM	1558	7.4%
	Tue May 21, 2002	6:00 - 9:00 AM	1355	5.4%
	Tue Nov 6, 2001	6:00 - 9:00 AM	1253	1.6%
	Wed Mar 29, 2000	6:00 - 9:00 AM	2086	1.7%

P.M. PEAK	Year 2010	-	-	-
	Year 2009	-	-	-
	Year 2008	-	-	-
	Year 2007	-	-	-
	Year 2006	-	-	-
	Year 2005	-	-	-
	Year 2004	-	-	-
	Year 2003	-	-	-
	Tue May 28, 2002	3:00 - 6:00 PM	1081	1.5%
	Wed Apr 4, 2001	3:00 - 6:00 PM	1160	0.9%
	Thu Apr 13, 2000	3:00 - 6:00 PM	1106	5.4%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
 (b) Evening period of operation from 3:00 to 7:00 PM.
 (c) Data was not collected in 2010 for off-peak direction

SANTA CLARA-680

Alameda County Line to Route 237

Southbound - P.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 4:00 - 5:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	27	24	9	8
Buses	2	11	0	5
Carpools ⁽¹⁾	1211	1394	450	493
Vanpools	24	6	7	1
Hybrid/Single Occ. ⁽²⁾	22	10230	7	4558
Violators	45	—	5	—
TOTAL	1331	11665	478	5065
PERSONS	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	27	24	9	8
Buses	70	385	0	175
Carpools ⁽¹⁾	2497	2992	923	1059
Vanpools	240	60	70	10
Hybrid/Single Occ. ⁽²⁾	22	10230	7	4558
Violators	45	—	5	—
TOTAL	2901	13691	1014	5810
RATES	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.2 persons/veh		2.1 persons/veh	
Mixed Flow occupancy rate	1.2 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.3 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	3.4 %		1.0 %	

NOTES: (1) Two or more occupants per vehicle.

(2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only

(3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$

(4) HOV lane in operation from 3:00 to 7:00 P.M.

(5) Observations conducted 04/15/10 at Jackson Street I/C

SANTA CLARA-680

Alameda Co. Line to Route 237 Calaveras Blvd

Violation History

Southbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Year 2010	-	-	-
	Thu May 21, 2009	6:00-9:00 A.M	1203	4.1%
P.M. PEAK	Thu Apr 15, 2010	3:00-6:00 P.M	1331	3.4%
	Thu Apr 23, 2009	3:00-6:00 P.M	815	1.0%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.
(c) Data was not collected in 2010 for off-peak direction

SAN FRANCISCO-80

HOV RAMP

Sterling Street on-ramp to SFOBB

Eastbound-P.M.

Typical data for 2010 ⁽⁵⁾

	PEAK PERIOD ⁽⁴⁾		PEAK HOUR	
	3:30 - 7:00 PM		5:00 - 6:00 PM	
VEHICLES	HOV Lane	SOV Lane	HOV Lane	SOV Lane
Motorcycles	134	—	41	—
Buses	13	—	4	—
Carpool ⁽¹⁾	1492	—	476	—
2 - seaters ⁽²⁾	468	—	167	—
Hybrid	326	—	113	—
Vanpools	62	—	24	—
Trucks	30	—	11	—
Violators	693	—	176	—
TOTAL	3218	N/A	1012	N/A
PERSONS	HOV Lane	SOV Lane	HOV Lane	SOV Lane
Motorcycles	134	—	41	—
Buses	455	—	140	—
Carpool ⁽¹⁾	4625	—	1476	—
2 - seaters ⁽²⁾	936	—	334	—
Hybrid	326	—	113	—
Vanpools	620	—	240	—
Trucks	30	—	11	—
Violators	1089	—	305	—
TOTAL	8215	N/A	2660	N/A
RATES				
HOV Lane occupancy rate	2.6 persons/veh		2.6 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	21.5 %		17.4 %	

- NOTES:** (1) 3 or more persons per vehicle.
 (2) 2 - seater vehicles with 2 persons.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) HOV lane in operation from 3:30 to 7:00 PM.
 (5) Observations conducted 3/23/10 at the Sterling Street on-ramp

SAN FRANCISCO-80

HOV RAMP

Sterling Street On-Ramp to SFOBB

Violation History

Eastbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
P.M. PEAK	Sun May 23, 2010	3:30 - 7:00 PM	3218	21.5%
	Tue Mar 17, 2009	3:30 - 7:00 PM	3108	23.6%
	Wed Oct 1, 2008	3:30 - 7:00 PM	3161	23.5%
	Thu Sep 20, 2007	3:30 - 7:00 PM	3223	10.6%
	Tue Sep 12, 2006	3:30 - 7:00 PM	3411	23.0%
	Tue Mar 8, 2005	3:30 - 7:00 PM	3391	24.4%
	Tue Oct 12, 2004	3:30 - 7:00 PM	3161	20.2%
	Wed Apr 30, 2003	3:30 - 7:00 PM	2185	22.6%
	Tue Sep 17, 2002	3:30 - 7:00 PM	2713	15.1%
	Wed Oct 10, 2001	3:30 - 7:00 PM	3133	10.4%
	Thu Oct 19, 2000	3:30 - 7:00 PM	3327	6.5%

NOTES: *Evening period of operation from 3:30 to 7:00 P.M.*

SAN MATEO-101

Whipple Avenue to SM/SCL County Line

Southbound - A.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	69	51	22	8
Buses	41	17	27	6
Carpools ⁽¹⁾	973	863	436	378
Vanpools	7	10	3	0
Hybrid/Single Occ. ⁽²⁾	263	17032	134	6629
Violators	82	—	34	—
TOTAL	1435	17973	656	7021
PERSONS	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	69	51	22	8
Buses	1435	595	945	210
Carpools ⁽¹⁾	2176	1878	979	823
Vanpools	70	100	30	0
Hybrid/Single Occ. ⁽²⁾	263	17032	134	6629
Violators	82	—	34	—
TOTAL	4095	19656	2144	7670
RATES	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.9 persons/veh		3.3 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	5.7 %		5.2 %	

- NOTES:** (1) Two or more occupants per vehicle.
(2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only
(3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$
(4) HOV lane in operation from 5:00 to 9:00 A.M.
(5) Observations conducted 06/03/10 at the Woodside Road I/C

SAN MATEO-101

Whipple Avenue to SM/SCL County Line

Southbound - P.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 4:00 - 5:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	105	21	28	8
Buses	17	7	4	6
Carpools ⁽¹⁾	1520	999	418	282
Vanpools	14	5	1	2
Hybrid/Single Occ. ⁽²⁾	105	17282	28	6052
Violators	23	—	3	—
TOTAL	1784	18314	482	6350
PERSONS	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	105	21	28	8
Buses	595	245	140	210
Carpools ⁽¹⁾	3142	2109	849	589
Vanpools	140	50	10	20
Hybrid/Single Occ. ⁽²⁾	105	17282	28	6052
Violators	23	—	3	—
TOTAL	4110	19707	1058	6879
RATES	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.3 persons/veh		2.2 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	1.3 %		0.6 %	

NOTES: (1) Two or more occupants per vehicle.

(2) Hybrid HOV Lane only/Single occupancy mixed flow lanes only

(3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$

(4) HOV lane in operation from 3:00 to 7:00 P.M.

(5) Observations conducted 03/24/10 at Woodside Road I/C

SAN MATEO-101

SM/SCL County Line to Whipple Avenue

Northbound - A.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	14	8	3	0
Buses	11	18	4	6
Carpools ⁽¹⁾	2560	479	961	156
Vanpools	29	10	7	0
Hybrid/Single Occ. ⁽²⁾	147	11650	57	4680
Violators	6	—	1	—
TOTAL	2767	12165	1033	4842

PERSONS	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	14	8	3	0
Buses	385	630	140	210
Carpools ⁽¹⁾	5206	1005	1952	338
Vanpools	290	100	70	0
Hybrid/Single Occ. ⁽²⁾	147	11650	57	4680
Violators	6	—	1	—
TOTAL	6048	13393	2223	5228

RATES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.2 persons/veh		2.2 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.3 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	0.2 %		0.1 %	

- NOTES:** (1) Two or more occupants per vehicle.
 (2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) HOV lane in operation from 5:00 to 9:00 A.M.
 (5) Observations conducted 05/27/10 at the Woodside Road I/C

SAN MATEO-101

SM/SCL County Line to Whipple Avenue

Northbound - P.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 4:00 - 5:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	33	26	17	4
Buses	6	23	1	6
Carpools ⁽¹⁾	2177	849	732	249
Vanpools	13	10	4	2
Hybrid/Single Occ. ⁽²⁾	197	10282	70	3574
Violators	6	—	1	—
TOTAL	2432	11190	825	3835

PERSONS	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 4:00 - 5:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	33	26	17	4
Buses	210	805	35	210
Carpools ⁽¹⁾	4428	1793	1490	527
Vanpools	130	100	40	20
Hybrid/Single Occ. ⁽²⁾	197	10282	70	3574
Violators	6	—	1	—
TOTAL	5004	13006	1653	4335

RATES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 4:00 - 5:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.1 persons/veh		2.0 persons/veh	
Mixed Flow occupancy rate	1.2 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.3 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	0.2 %		0.1 %	

NOTES: (1) Two or more occupants per vehicle.

(2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only

(3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$

(4) HOV lane in operation from 3:00 to 7:00 P.M.

(5) Observations conducted 06/02/10 at the Woodside Road I/C

SAN MATEO-101

Whipple Avenue to the SM/SCL County Line

Violation History

Southbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Thu Jun 3, 2010	6:00 - 9:00 AM	1435	5.7%
	Thu May 14, 2009	6:00 - 9:00 AM	1547	0.8%
	Tue Apr 15, 2008	6:00 - 9:00 AM	1322	1.4%
	Thu Dec 13, 2007	6:00 - 9:00 AM	1972	0.6%
	Wed May 31, 2006	6:00 - 9:00 AM	1238	0.8%
	Thu Mar 10, 2005	6:00 - 9:00 AM	1177	1.4%
	Wed Dec 15, 2004	7:00 - 9:00 AM	1355	0.1%
	Wed Apr 9, 2003	6:00 - 9:00 AM	1701	0.6%
	Tue Mar 26, 2002	6:00 - 9:00 AM	1549	3.5%
	Thu Mar 22, 2001	6:00 - 9:00 AM	1746	2.2%
	Tue Apr 25, 2000	6:00 - 9:00 AM	1849	7.0%
P.M. PEAK	Wed Mar 24, 2010	3:00 - 6:00 PM	1784	1.3%
	Thu Oct 22, 2009	3:00 - 6:00 PM	2177	8.5%
	Thu Oct 2, 2008	3:00 - 6:00 PM	2788	0.8%
	Thu May 24, 2007	3:00 - 6:00 PM	2070	3.8%
	Tue Jun 13, 2006	3:00 - 6:00 PM	1754	0.5%
	Wed Sep 28, 2005	3:00 - 6:00 PM	1568	1.5%
	Tue Oct 26, 2004	3:00 - 6:00 PM	1296	1.5%
	Wed May 14, 2003	3:00 - 6:00 PM	1488	2.5%
	Wed Oct 2, 2002	3:00 - 6:00 PM	1895	3.2%
	Thu Nov 8, 2001	3:00 - 5:30 PM	1685	7.0%
	Thu Oct 12, 2000	3:00 - 6:00 PM	2245	3.3%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.

SAN MATEO-101

SM/SCL County Line to Whipple Avenue

Violation History

Northbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Thu May 27, 2010	6:00 - 9:00 AM	2767	0.2%
	Thu Nov 19, 2009	6:00 - 9:00 AM	3018	0.3%
	Tue Mar 13, 2007	6:00 - 9:00 AM	2478	0.8%
	Thu Oct 26, 2006	6:00 - 9:00 AM	1573	0.2%
	Wed Apr 6, 2005	6:00 - 9:00 AM	1409	0.5%
	Wed Dec 1, 2004	6:00 - 9:00 AM	1337	0.7%
	Thu Oct 9, 2003	7:00 - 9:00 AM	1031	1.5%
	Tue Apr 9, 2002	6:45 - 9:00 AM	865	5.7%
	Wed Oct 31, 2001	6:00 - 9:00 AM	1662	2.1%
	Thu Oct 12, 2000	6:00 - 9:00 AM	2964	4.7%
P.M. PEAK	Wed Jun 2, 2010	3:00 - 6:00 PM	2432	0.2%
	Thu May 14, 2009	3:00 - 6:00 PM	2262	0.5%
	Thu Nov 29, 2007	3:00 - 6:00 PM	2508	7.3%
	Thu Jun 1, 2006	3:00 - 6:00 PM	2343	0.0%
	Tue Oct 4, 2005	3:00 - 6:00 PM	2025	0.4%
	Thu Oct 28, 2004	3:00 - 6:00 PM	1929	0.1%
	Tue Apr 8, 2003	3:00 - 6:00 PM	2327	2.0%
	Wed Jun 5, 2002	3:00 - 6:00 PM	1969	3.4%
	Wed Nov 14, 2001	3:00 - 5:30 PM	1675	0.2%
	Tue Sep 12, 2000	3:00 - 6:00 PM	2329	14.3%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.

SOLANO-80

Carquinez Bridge Toll Plaza

Eastbound - P.M.

Typical data for 2010

(6)

PEAK PERIOD ⁽⁵⁾

3:00 to 7:00 P.M.

PEAK HOUR

5:00 to 6:00 P.M.

VEHICLES

	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	202	—	55	—
Buses ⁽⁴⁾	11	—	3	—
Carpools ⁽¹⁾	1956	—	519	—
2 - seaters ⁽²⁾	540	—	150	—
Hybrid	144	—	50	—
Vanpools	121	—	33	—
Violators (HOV only)	206	—	39	—
TOTAL	3180	15126 ⁽⁷⁾	849	3971

PERSONS

	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	202	—	55	—
Buses ⁽⁴⁾	385	—	105	—
Carpools ⁽¹⁾	6064	—	1609	—
2 - seaters ⁽²⁾	1080	—	300	—
Hybrid	144	—	50	—
Vanpools	1210	—	330	—
Violators (HOV only)	352	—	61	—
TOTAL	9437	16639 ⁽⁷⁾	2510	4368

RATES

HOV Lane occupancy rate	3.0 persons/veh	3.0 persons/veh
Mixed Flow Occupancy Rate ⁽⁷⁾	1.1 persons/veh	1.1 persons/veh
Violation rate (HOV Lane) ⁽³⁾	6.5 %	4.6 %

NOTES: (1) 3 or more persons per vehicle.

(2) 2 - seater vehicles with 2 persons.

(3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$

(4) Assumed PM bus occupancy = 35 persons/vehicle.

(5) HOV lane in operation from 3:00 to 7:00 P.M.

(6) Observations conducted 3/23/10 at the Carquinez Bridge Toll Plaza.

(7) Data from Toll Plaza vehicle Registration Report.

SOLANO-80

Carquinez Bridge Toll Plaza

Violation History

Eastbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Year 2010	-	-	-
	Year 2009	-	-	-
	Year 2008	-	-	-
	Year 2007	-	-	-
	Year 2006	-	-	-
	Year 2005	-	-	-
	Year 2004	-	-	-
	Year 2003	-	-	-
	Thu Nov 14, 2002	5:00 - 10:00 AM	706	10.1%
	Thu May 31, 2001	5:00 - 10:00 AM	804	24.5%
	Thu Nov 16, 2000	5:00 - 10:00 AM	773	34.4%
P.M. PEAK	Tue Mar 23, 2010	3:00 - 7:00 PM	3180	6.5%
	Wed Mar 18, 2009	3:00 - 7:00 PM	3465	12.9%
	Wed Apr 2, 2008	3:00 - 7:00 PM	3459	13.4%
	Tue Sep 18, 2007	3:00 - 7:00 PM	3452	10.1%
	Thu Sep 14, 2006	3:00 - 7:00 PM	3285	11.0%
	Wed Sep 14, 2005	3:00 - 7:00 PM	3523	6.0%
	Wed Oct 13, 2004	3:00 - 7:00 PM	3342	9.4%
	Thu May 15, 2003	3:00 - 7:00 PM	3360	8.8%
	Thu Sep 26, 2002	3:00 - 7:00 PM	3429	9.5%
	Thu Mar 29, 2001	3:00 - 7:00 PM	3493	1.2%
	Tue Oct 17, 2000	3:00 - 7:00 PM	3373	9.5%

NOTES: (a) Morning period of operation from 5:00 to 10:00 AM
(b) Evening period of operation from 3:00 to 7:00 PM.
(c) Data was not collected in 2010 for off-peak direction

SOLANO-80

Airbase Parkway to Red Top Road

Westbound - A.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	31	42	11	7
Buses	5	24	1	14
Carpools ⁽¹⁾	778	791	302	327
Vanpools	8	13	2	9
Hybrid/Single Occ. ⁽²⁾	44	10742	18	4016
Violators	26	—	13	—
TOTAL	892	11612	347	4373
PERSONS	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	31	42	11	7
Buses	175	840	35	490
Carpools ⁽¹⁾	1603	1640	630	685
Vanpools	80	130	20	90
Hybrid/Single Occ. ⁽²⁾	44	10742	18	4016
Violators	26	—	13	—
TOTAL	1959	13394	727	5288
RATES	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.2 persons/veh		2.1 persons/veh	
Mixed Flow occupancy rate	1.2 persons/veh		1.2 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	2.9 %		3.7 %	

- NOTES:** (1) Two or more occupants per vehicle.
(2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only.
(3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$
(4) HOV lane in operation from 5:00 to 10:00 A.M.
(5) Observations conducted 04/22/10 at Green Valley Road Park&Ride.

SOLANO-80

Airbase Parkway to Red Top Road

Westbound - P.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 3:00 - 4:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	3	6	2	0
Buses	12	15	7	7
Carpools ⁽¹⁾	685	879	210	324
Vanpools	4	8	0	1
Hybrid/Single Occ. ⁽²⁾	22	7263	5	2580
Violators	24	—	11	—
TOTAL	750	8171	235	2912
PERSONS	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	3	6	2	0
Buses	420	525	245	245
Carpools ⁽¹⁾	1455	1820	452	669
Vanpools	40	80	0	10
Hybrid/Single Occ. ⁽²⁾	22	7263	5	2580
Violators	24	—	11	—
TOTAL	1964	9694	715	3504
RATES	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.6 persons/veh		3.0 persons/veh	
Mixed Flow occupancy rate	1.2 persons/veh		1.2 persons/veh	
Overall occupancy (incl. buses)	1.3 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	3.2 %		4.7 %	

- NOTES:** (1) Two or more occupants per vehicle.
(2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only.
(3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$
(4) HOV lane in operation from 3:00 to 7:00 P.M.
(5) Observations conducted 04/28/10 at Green Valley Road Park&Ride.

SOLANO-80

Red Top Road to Airbase Parkway

Eastbound - A.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	11	25	4	17
Buses	9	16	8	8
Carpools ⁽¹⁾	421	815	167	400
Vanpools	7	13	2	5
Hybrid/Single Occ. ⁽²⁾	18	8131	8	3226
Violators	7	—	2	—
TOTAL	473	9000	191	3656
PERSONS	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	11	25	4	17
Buses	315	560	280	280
Carpools ⁽¹⁾	884	1709	353	845
Vanpools	70	130	20	50
Hybrid/Single Occ. ⁽²⁾	18	8131	8	3226
Violators	7	—	2	—
TOTAL	1305	10555	667	4418
RATES	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.8 persons/veh		3.5 persons/veh	
Mixed Flow occupancy rate	1.2 persons/veh		1.2 persons/veh	
Overall occupancy (incl. buses)	1.3 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	1.5 %		1.0 %	

- NOTES:** (1) Two or more occupants per vehicle.
(2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only.
(3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
(4) HOV lane in operation from 5:00 to 10:00 A.M.
(5) Observations conducted 04/15/10 at Abernathy Road Interchange.

SOLANO-80

Red Top Road to Airbase Parkway

Eastbound - P.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 3:00 - 4:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	30	5	11	0
Buses	8	23	2	10
Carpools ⁽¹⁾	1316	792	435	283
Vanpools	46	28	12	13
Hybrid/Single Occ. ⁽²⁾	70	9474	24	3225
Violators	17	—	11	—
TOTAL	1487	10322	495	3531
PERSONS	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	30	5	11	0
Buses	280	805	70	350
Carpools ⁽¹⁾	2695	1671	892	589
Vanpools	460	280	120	130
Hybrid/Single Occ. ⁽²⁾	70	9474	24	3225
Violators	17	—	11	—
TOTAL	3552	12235	1128	4294
RATES	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.4 persons/veh		2.3 persons/veh	
Mixed Flow occupancy rate	1.2 persons/veh		1.2 persons/veh	
Overall occupancy (incl. buses)	1.3 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	1.1 %		2.2 %	

- NOTES:** (1) Two or more occupants per vehicle.
(2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only.
(3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$
(4) HOV lane in operation from 3:00 to 7:00 P.M.
(5) Observations conducted 04/21/10 at Abernathy Road Interchange.

SOLANO-80

Airbase Parkway to Red Top Road

Violation History

Westbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Thu Apr 22, 2010	5:00 - 10:00 AM	892	2.9%
P.M. PEAK	Wed Apr 28, 2010	3:00 - 7:00 PM	750	3.2%

NOTES: (a) Morning period of operation from 5:00 to 10:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.

SOLANO-80

Red Top Road to Airbase Parkway

Violation History

Eastbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Thu Apr 15, 2010	5:00 - 10:00 AM	473	1.5%
P.M. PEAK	Wed Apr 21, 2010	3:00 - 7:00 PM	1487	1.1%

NOTES: (a) Morning period of operation from 5:00 to 10:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.

SONOMA-101

Windsor River Road to Route 12

Southbound - A.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 7:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	14	7	8	4
Buses	1	0	1	0
Carpools ⁽¹⁾	178	220	97	114
Vanpools	0	0	0	0
Hybrid/Single Occ. ⁽²⁾	3	3657	1	1922
Violators	4	—	1	—
TOTAL	200	3884	108	2040
PERSONS	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	14	7	8	4
Buses	35	0	35	0
Carpools ⁽¹⁾	358	447	194	232
Vanpools	0	0	0	0
Hybrid/Single Occ. ⁽²⁾	3	3657	1	1922
Violators	4	—	1	—
TOTAL	414	4111	239	2158
RATES	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.1 persons/veh		2.2 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.1 persons/veh		1.1 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	2.0 %		0.9 %	

- NOTES:** (1) Two or more occupants per vehicle.
(2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only.
(3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$
(4) HOV lane in operation from 7:00 to 9:00 A.M.
(5) Observations conducted 03/23/10 at South of Windsor River Road.

SONOMA-101

Windsor River Road to Route 12

Southbound - P.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:30 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	28	30	11	6
Buses	2	14	0	3
Carpools ⁽¹⁾	445	807	137	233
Vanpools	1	4	1	0
Hybrid/Single Occ. ⁽²⁾	5	5372	1	1624
Violators	7	—	0	—
TOTAL	488	6227	150	1866

PERSONS	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:30 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	28	30	11	6
Buses	70	490	0	105
Carpools ⁽¹⁾	911	1690	280	484
Vanpools	10	40	10	0
Hybrid/Single Occ. ⁽²⁾	5	5372	1	1624
Violators	7	—	0	—
TOTAL	1031	7622	302	2219

RATES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:30 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.1 persons/veh		2.0 persons/veh	
Mixed Flow occupancy rate	1.2 persons/veh		1.2 persons/veh	
Overall occupancy (incl. buses)	1.3 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	1.4 %		0.0 %	

NOTES: (1) Two or more occupants per vehicle.

(2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only

(3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$

(4) HOV lane in operation from 3:00 to 6:30 P.M.

(5) Observations conducted 03/18/10 at South of Windsor River Road.

SONOMA-101

Route 12 to Windsor River Road

Northbound - A.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 7:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	15	16	6	3
Buses	3	3	2	2
Carpools ⁽¹⁾	378	288	223	153
Vanpools	3	1	2	1
Hybrid/Single Occ. ⁽²⁾	8	5780	7	3174
Violators	5	—	4	—
TOTAL	412	6088	244	3333
PERSONS	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	15	16	6	3
Buses	105	105	70	70
Carpools ⁽¹⁾	758	601	448	319
Vanpools	30	10	20	10
Hybrid/Single Occ. ⁽²⁾	8	5780	7	3174
Violators	5	—	4	—
TOTAL	921	6512	555	3576
RATES	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.2 persons/veh		2.3 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.1 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	1.2 %		1.6 %	

- NOTES:** (1) Two or more occupants per vehicle.
(2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only.
(3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$
(4) HOV lane in operation from 7:00 to 9:00 A.M.
(5) Observations conducted 03/18/10 at South of Windsor River Road.

SONOMA-101

Route 12 to Windsor River Road

Northbound - P.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:30 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	46	32	23	8
Buses	4	6	2	6
Carpools ⁽¹⁾	1238	1124	415	343
Vanpools	2	0	1	0
Hybrid/Single Occ. ⁽²⁾	23	10492	7	3142
Violators	23	—	2	—
TOTAL	1336	11654	450	3499

PERSONS	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:30 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	46	32	23	8
Buses	140	210	70	210
Carpools ⁽¹⁾	2578	2327	874	725
Vanpools	20	0	10	0
Hybrid/Single Occ. ⁽²⁾	23	10492	7	3142
Violators	23	—	2	—
TOTAL	2830	13061	986	4085

RATES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:30 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.1 persons/veh		2.2 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.2 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	1.7 %		0.4 %	

- NOTES:** (1) Two or more occupants per vehicle.
 (2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$
 (4) HOV lane in operation from 3:00 to 6:30 P.M.
 (5) Observations conducted 03/17/10 at South of Windsor River Road I/C.

SONOMA-101

Windsor River road to Route 12

Violation History

Southbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Tue Mar 23, 2010	7:00 - 9:00 AM	200	2.0%
P.M. PEAK	Thu Mar 18, 2010	3:00 - 6:30 PM	488	1.4%

NOTES: (a) Morning period of operation from 7:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 6:30 PM.

SONOMA-101

Route 12 to Windsor River Road

Violation History

Northbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Thu Mar 18, 2010	7:00 - 9:00 AM	412	1.2%
P.M. PEAK	Wed Mar 17, 2010	3:00 - 6:30 PM	1336	1.7%

NOTES: (a) Morning period of operation from 7:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 6:30 PM.

SONOMA-101

Route 12 to Wilfred Avenue.

Southbound - A.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 7:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	18	6	12	1
Buses	29	3	17	2
Carpools ⁽¹⁾	451	257	260	117
Vanpools	2	1	1	1
Hybrid/Single Occ. ⁽²⁾	26	7520	12	3907
Violators	23	—	12	—
TOTAL	549	7787	314	4028

PERSONS	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	18	6	12	1
Buses	1015	105	595	70
Carpools ⁽¹⁾	943	562	539	270
Vanpools	20	10	10	10
Hybrid/Single Occ. ⁽²⁾	26	7520	12	3907
Violators	23	—	12	—
TOTAL	2045	8203	1180	4258

RATES	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	3.7 persons/veh		3.8 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	4.2 %		3.8 %	

- NOTES:** (1) Two or more occupants per vehicle.
 (2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$
 (4) HOV lane in operation from 7:00 to 9:00 A.M.
 (5) Observations conducted 04/29/10 at South of Hearn Ave. I/C.

SONOMA-101

Route 12 to Wilfred Avenue

Southbound - P.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:30 PM		PEAK HOUR 4:00 - 5:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	70	16	23	8
Buses	21	2	5	0
Carpools ⁽¹⁾	2272	911	666	404
Vanpools	4	5	1	2
Hybrid/Single Occ. ⁽²⁾	52	12050	21	3937
Violators	23	—	1	—
TOTAL	2442	12984	717	4351

PERSONS	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:30 PM		PEAK HOUR 4:00 - 5:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	70	16	23	8
Buses	735	70	175	0
Carpools ⁽¹⁾	4669	1933	1364	844
Vanpools	40	50	10	20
Hybrid/Single Occ. ⁽²⁾	52	12050	21	3937
Violators	23	—	1	—
TOTAL	5589	14119	1594	4809

RATES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:30 PM		PEAK HOUR 4:00 - 5:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.3 persons/veh		2.2 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.3 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	0.9 %		0.1 %	

- NOTES:** (1) Two or more occupants per vehicle.
 (2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$
 (4) HOV lane in operation from 3:00 to 6:30 P.M.
 (5) Observations conducted 04/22/10 at South of Hearn Avenue I/C.

SONOMA-101

Wilfred Avenue to Route 12

Northbound - A.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 7:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	25	10	9	6
Buses	6	4	4	2
Carpools ⁽¹⁾	543	456	269	198
Vanpools	3	4	2	2
Hybrid/Single Occ. ⁽²⁾	24	5915	11	3149
Violators	27	—	13	—
TOTAL	628	6389	308	3357

PERSONS	PEAK PERIOD ⁽⁴⁾ 7:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	25	10	9	6
Buses	210	140	140	70
Carpools ⁽¹⁾	1123	973	550	416
Vanpools	30	40	20	20
Hybrid/Single Occ. ⁽²⁾	24	5915	11	3149
Violators	27	—	13	—
TOTAL	1439	7078	743	3661

RATES	PEAK PERIOD ⁽⁴⁾ 7:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.3 persons/veh		2.4 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	4.3 %		4.2 %	

- NOTES:** (1) Two or more occupants per vehicle.
 (2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$
 (4) HOV lane in operation from 7:00 to 9:00 A.M.
 (5) Observations conducted 05/04/10 at North of Todd Road I/C.

SONOMA-101

Wilfred Avenue to Route 12

Northbound - P.M.

Typical data for 2010 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:30 PM		PEAK HOUR 4:00 - 5:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	66	15	25	6
Buses	21	3	8	3
Carpools ⁽¹⁾	1517	672	522	231
Vanpools	10	1	3	0
Hybrid/Single Occ. ⁽²⁾	30	11911	7	3677
Violators	26	—	6	—
TOTAL	1670	12602	571	3917

PERSONS	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:30 PM		PEAK HOUR 4:00 - 5:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	66	15	25	6
Buses	735	105	280	105
Carpools ⁽¹⁾	3109	1401	1089	480
Vanpools	100	10	30	0
Hybrid/Single Occ. ⁽²⁾	30	11911	7	3677
Violators	26	—	6	—
TOTAL	4066	13442	1437	4268

RATES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:30 PM		PEAK HOUR 4:00 - 5:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.4 persons/veh		2.5 persons/veh	
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	1.6 %		1.1 %	

- NOTES:** (1) Two or more occupants per vehicle.
 (2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane}}{\text{Total no. of vehicles in HOV lane}} \times 100\%$
 (4) HOV lane in operation from 3:00 to 6:30 P.M.
 (5) Observations conducted 03/23/10 at North of Todd Road I/C.

SONOMA-101

Route 12 to Wilfred Avenue

Violation History

Southbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Thu Apr 29, 2010	7:00 - 9:00 AM	549	4.2%
	Thu May 7, 2009	7:00 - 9:00 AM	687	4.4%
	Tue Apr 29, 2008	7:00 - 9:00 AM	699	4.1%
	Thu Mar 22, 2007	7:00 - 9:00 AM	781	4.4%
	Wed Oct 18, 2006	7:00 - 9:00 AM	705	4.7%
	Thu Mar 10, 2005	7:00 - 9:00 AM	1023	3.8%
	Thu Oct 7, 2004	7:00 - 9:00 AM	772	2.2%
	Thu Apr 10, 2003	6:30 - 9:30 AM	997	4.8%
	Tue Dec 10, 2002	6:30 - 9:30 AM	951	5.8%
P.M. PEAK	Thu Apr 22, 2010	3:00 - 6:30 PM	2442	0.9%
	Wed Apr 29, 2009	3:00 - 6:30 PM	2563	1.0%
	Wed Apr 16, 2008	3:00 - 6:30 PM	2276	2.2%
	Thu Sep 27, 2007	3:00 - 6:30 PM	2223	2.7%
	Thu Apr 27, 2006	3:00 - 6:30 PM	2277	3.6%
	Wed Mar 9, 2005	3:00 - 6:30 PM	1967	3.9%
	Thu Oct 28, 2004	3:00 - 6:30 PM	2809	1.2%
	Thu Apr 10, 2003	3:00 - 7:00 PM	2224	2.7%
	Tue Dec 10, 2002	3:00 - 7:00 PM	1645	2.9%

NOTES: (a) Morning period of operation from 7:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 6:30 PM.

SONOMA-101

Wilfred Avenue to Route 12

Violation History

Northbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Tue May 4, 2010	7:00 - 9:00 AM	628	4.3%
	Thu May 28, 2009	7:00 - 9:00 AM	702	4.0%
	Thu Oct 16, 2008	7:00 - 9:00 AM	790	3.3%
	Wed Mar 28, 2007	7:00 - 9:00 AM	918	3.5%
	Wed Oct 25, 2006	7:00 - 9:00 AM	807	3.5%
	Tue Mar 15, 2005	7:00 - 9:00 AM	836	4.9%
	Thu Oct 14, 2004	7:00 - 9:00 AM	666	4.4%
	Wed Apr 9, 2003	6:30 - 9:30 AM	839	6.0%
	Thu Dec 5, 2002	6:30 - 9:30 AM	696	6.6%
P.M. PEAK	Tue Mar 23, 2010	3:00 - 6:30 PM	1670	1.6%
	Thu Mar 26, 2009	3:00 - 6:30 PM	1988	1.2%
	Thu Oct 16, 2008	3:00 - 6:30 PM	1766	1.0%
	Tue Mar 27, 2007	3:00 - 6:30 PM	1982	1.4%
	Thu Apr 13, 2006	3:00 - 6:30 PM	1907	3.7%
	Thu Oct 6, 2005	3:00 - 6:30 PM	2263	2.0%
	Thu Oct 21, 2004	3:00 - 6:30 PM	1945	2.2%
	Thu Oct 16, 2003	3:00 - 7:00 PM	2172	3.2%
	Thu Dec 5, 2002	3:00 - 7:00 PM	2145	1.9%

NOTES: (a) Morning period of operation from 7:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 6:30 PM.

HOV TOLL GATES

VOLUME/PERSON DATA

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HOV TOLL GATE

Richmond-San Rafael Bridge Toll Plaza

CONTRA COSTA - 580

Westbound - A.M.

Typical data for 2010 ⁽³⁾

	PEAK PERIOD ⁽²⁾ 6:00 - 10:00 AM	PEAK HOUR 7:00 - 8:00 AM
VEHICLES		
Motorcycles	47	16
Buses	24	3
Vanpools	18	3
Carpools ⁽¹⁾	879	390
Total HOVs	968	412
1 Occupancy	1073	267
2 Occupancy	329	114
TOTAL	2370	793
PERSONS		
Motorcycles	47	16
Buses	840	105
Vanpools	180	30
Carpools ⁽¹⁾	2579	1119
Total HOVs	3646	1270
1 Occupancy	1073	267
2 Occupancy	658	228
TOTAL	5377	1765
RATES		
HOV Occupancy Rate	3.8 persons/veh	3.1 persons/veh
Mixed Flow Occupancy Rate	1.2 persons/veh	1.3 persons/veh
Overall Occupancy (incl. buses)	2.3 persons/veh	2.2 persons/veh

NOTES: (1) 3 or more persons per vehicle & 2 - seater vehicles with 2 persons.

(2) HOV operation hours from 5:00 to 10:00 AM and 3:00 to 6:00 PM.

(3) Observations conducted 3/24/10 at Toll Plaza.

HOV TOLL GATE

Richmond-San Rafael Bridge Toll Plaza

CONTRA COSTA - 580

Westbound - P.M.

Typical data for 2010 ⁽³⁾

	PEAK PERIOD ⁽²⁾ 3:00 - 6:00 PM	PEAK HOUR 3:00 - 4:00 PM
VEHICLES		
Motorcycles	42	14
Buses	5	4
Vanpools	19	9
Carpools ⁽¹⁾	248	96
Total HOVs	314	123
1 Occupancy	767	275
2 Occupancy	363	141
TOTAL	1444	539
PERSONS		
Motorcycles	42	14
Buses	175	140
Vanpools	190	90
Carpools ⁽¹⁾	1101	421
Total HOVs	1508	665
1 Occupancy	767	275
2 Occupancy	726	282
TOTAL	3001	1222
RATES		
HOV Occupancy Rate	4.8 persons/veh	5.4 persons/veh
Mixed Flow Occupancy Rate	1.3 persons/veh	1.3 persons/veh
Overall Occupancy (incl. buses)	2.1 persons/veh	2.3 persons/veh

NOTES: (1) 3 or more persons per vehicle & 2 - seater vehicles with 2 persons.

(2) HOV operation hours from 5:00 to 10:00 AM and 3:00 to 6:00 PM.

(3) Observations conducted 3/24/10 at Toll Plaza.

HOV TOLL GATE

Antioch Bridge Toll Plaza

CONTRA COSTA -160

Northbound A.M.

Typical data for 2010⁽³⁾

PEAK PERIOD⁽²⁾

6:00 to 9:00 A.M.

PEAK HOUR

7:00 to 8:00 A.M.

VEHICLES

Motorcycles	3	1
Buses	3	0
Vanpools	5	0
Carpools ⁽¹⁾	13	9
Total HOV	24	10
1 Occupancy	1032	368
2 Occupancy	89	47
TOTAL	1145	425

PERSONS

Motorcycles	3	1
Buses	105	0
Vanpools	50	0
Carpools ⁽¹⁾	40	28
Total HOV	198	29
1 Occupancy	1032	368
2 Occupancy	178	94
TOTAL	1408	491

RATES

HOV Occupancy Rate	8.3 persons/veh	2.9 persons/veh
Overall occupancy (incl. buses)	1.2 persons/veh	1.2 persons/veh

- NOTES:** (1) 3 or more occupants per vehicle & 2-seater vehicles w/2 occupants.
(2) HOV operation hours 5:00 to 10:00 AM.
(3) Observations conducted 4/13/10 at Toll Plaza

HOV TOLL GATE

Antioch Bridge Toll Plaza

CONTRA COSTA -160

Northbound P.M.

Typical data for 2010⁽³⁾

PEAK PERIOD⁽²⁾

3:00 to 6:00 P.M.

PEAK HOUR

3:00 to 4:00 P.M.

VEHICLES

Motorcycles	15	3
Buses	0	0
Vanpools	5	3
Carpools ⁽¹⁾	21	9
Total HOV	41	15
1 Occupancy	1081	409
2 Occupancy	213	85
TOTAL	1335	509

PERSONS

Motorcycles	15	3
Buses	0	0
Vanpools	50	30
Carpools ⁽¹⁾	65	28
Total HOV	130	61
1 Occupancy	1081	409
2 Occupancy	426	170
TOTAL	1637	640

RATES

HOV Occupancy Rate	3.2 persons/veh	4.1 persons/veh
Overall occupancy (incl. buses)	1.2 persons/veh	1.3 persons/veh

- NOTES:** (1) 3 or more occupants per vehicle & 2-seater vehicles w/2 occupants.
(2) HOV operation hours 3:00 to 7:00 PM.
(3) Observations conducted 4/15/10 at Toll Plaza

EXPRESS LANE

VOLUME DATA

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ALAMEDA-680

Express Lane

Route 84 to ALA/SCL Co. Line

Southbound

Typical data for 2010⁽²⁾

VEHICLES	PEAK PERIOD ⁽¹⁾		PEAK HOUR	
	6:00 - 10:00 AM		8:00 - 9:00 AM	
	Express Lane	Mixed Flow Lanes	Express Lane	Mixed Flow Lanes
TOTAL	3425	23338	1058	6134

NOTES: (1) *Express Lane in operation from 5:00 A.M. to 8:00 P.M.*

(2) *Data from the PeMS database collected on 10/12/10 at Mission Blvd. (SR 238)*